ÖN SÖZ

Değişen eğitim - öğretim sisteminde geometri programı

Bilimsel bilginin gelişimi, doğası, günlük hayattaki yansımaları, sosyal ve ekonomik yönden katkıları gibi birçok alanı birleştirerek öğrencilerin donanımlı, bilinçli ve geometri dersini severek öğrenmelerini amaçlamıştır.

Eğitim sistemimizin hedefleri arasında eleştirel, analitik, yenilikçi düşünen, sorgulayan yorum yapan yani üst düzey bilişsel becerilere sahip bireyler yetiştirilmesi bulunmaktadır. Bu nedenle kitabımız hazırlanırken öğrenciyi birçok yönden desteklemek ve öğrenmeyi kolaylaştırmak için gerekli yöntemler dikkate alınmıştır.

Ünite içeriği, konuların zorluğu ve kolaylığı üniversite sınavında soru gelme olasılığı test sayıları belirlemede ölçümüz olmuştur.

Soru içeriği, MEB Talim ve Terbiye Kurulu Başkanlığı'nın belirlediği kazanımlar esas alınarak oluşturulmuştur.

Kitabımızın sizlere yeterli verimi sağlaması dileğiyle...

Ömer Faruk CANER

Kitapla ilgili öneri, istek ve düşüncelerinizi aşağıdaki mail adreslerine iletebilirsiniz.

omercaner@yosdershanesi.com

PREFACE

Geometry program in the changing education system

By combining many fields such as the development of scientific knowledge, nature,

reflections in daily life, social and economic contributions, it aims to enable students to learn equipped, conscious by loving geometry.

The objectives of our education system are to train individuals who think critically, analytically, innovatively think, question and interpret, that is, high level cognitive skills.

Therefore, while preparing our book, the necessary methods are taken into consideration in order to support the student in many ways and to facilitate learning.

The content of the unit, the difficulty and ease of the subjects, the likelihood of questions

coming from the university exam have been measured in determining the number of tests.

The content of the question is based on the achievements determined by the MEB The Head Council of Education and Morality.

Wishing our book will provide you with sufficient efficiency...

Ömer Faruk CANER

You can send your suggestions, requests and thoughts about the book to the following e-mail addresses.

omercaner@yosdershanesi.com

CANER
eğitim kurumları

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AÇILAR
ANGLES

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1.

AB doğru (straight)

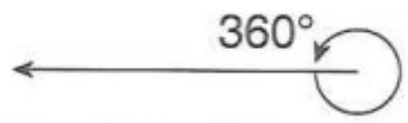
[AB ışın (ray)

[AB] doğru parçası
(line segment)

2.

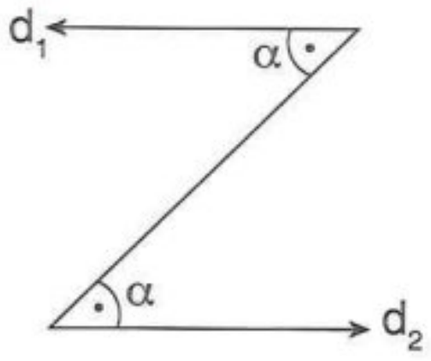
Dik Açı
(Right Angle)

[AB ışın (ray)
(Straight Angle)

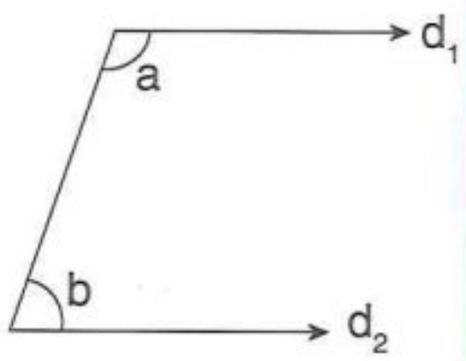


Tam Açı
(Prigon)

3.

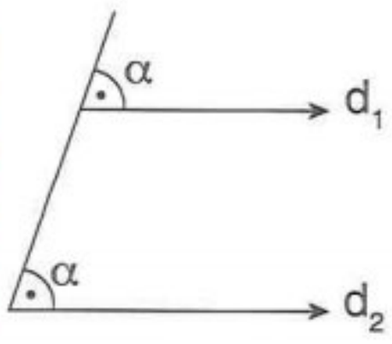


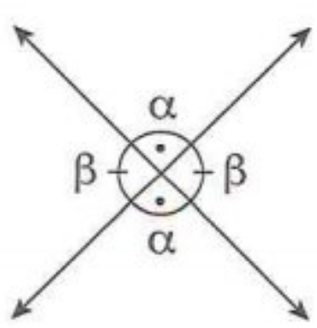
$d_1 // d_2$



$d_1 // d_2$ $a + b = 180°$

4.





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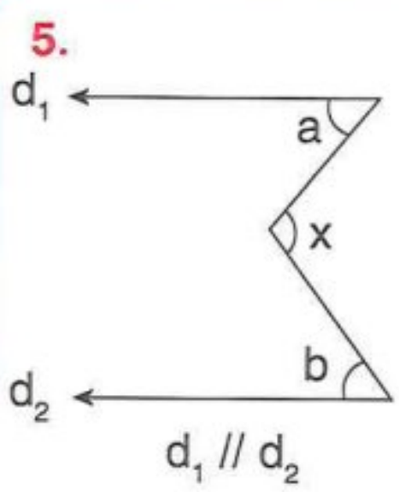
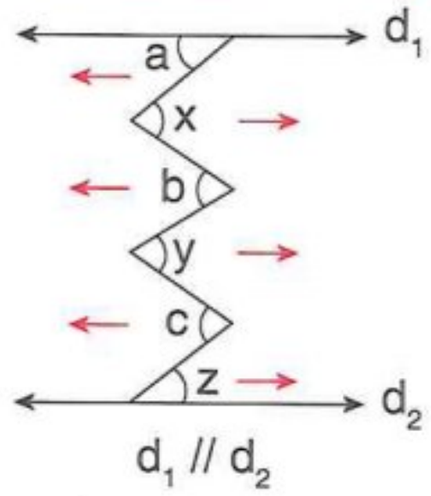


$d_1 // d_2$

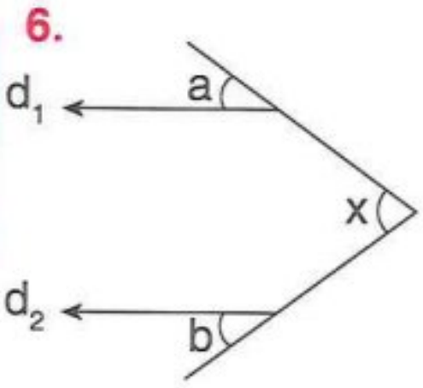
$x = a + b$



$d_1 // d_2$

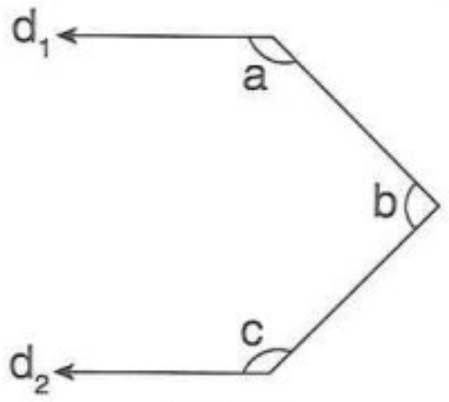
$a + b + c = x + y + z$

6.



$d_1 // d_2$

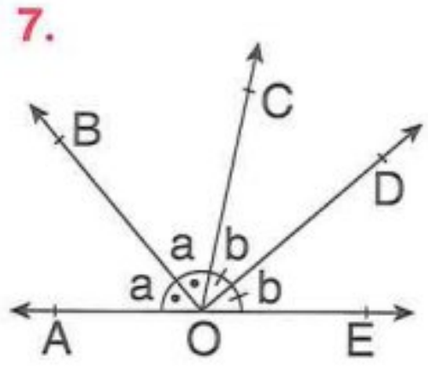
$x = a + b$



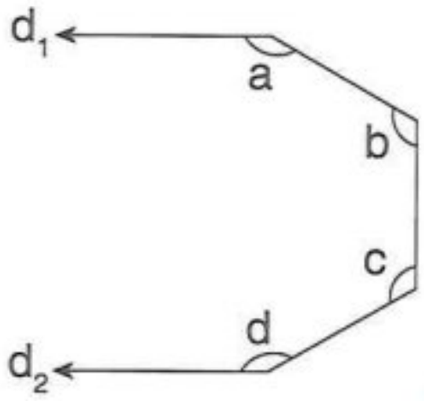
$d_1 // d_2$

$a + b + c = 360°$

7.



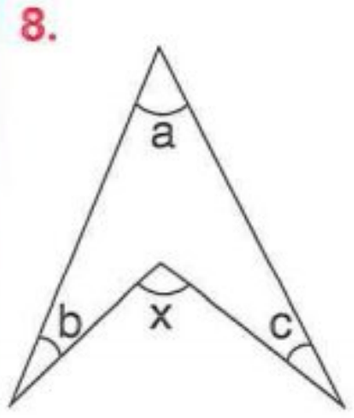
$m(\widehat{BOD}) = 90°$



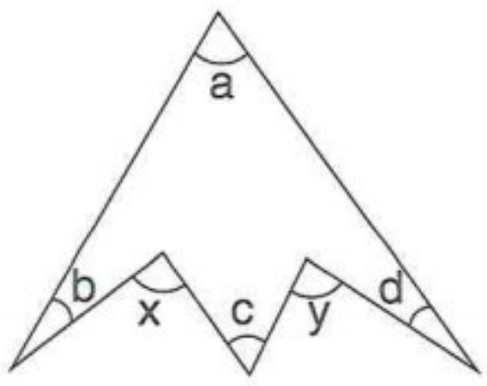
$d_1 // d_2$

$a + b + c + d = 540°$

8.



$x = a + b + c$



$x + y = a + b + c + d$

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AÇILAR
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CANER eğitim kurumları YÖS

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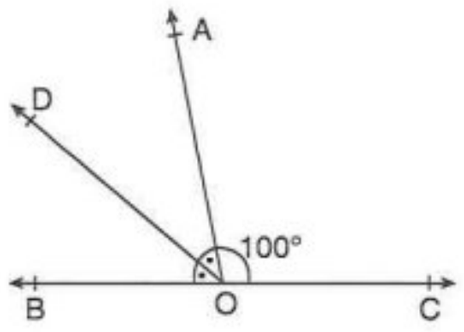
1.

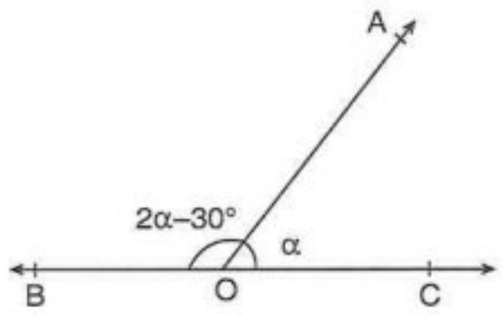


$m(A\widehat{O}C) = 100°$
$m(A\widehat{O}D) = m(D\widehat{O}B)$

$\Rightarrow$ **$m(A\widehat{O}D) = ?$**

A) 20° B) 30° C) 40° D) 50° E) 60°

2.

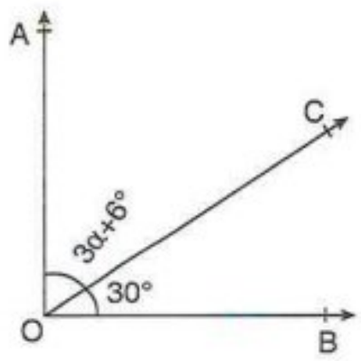


$m(A\widehat{O}C) = \alpha$
$m(A\widehat{O}B) = 2\alpha - 30°$

$\Rightarrow$ **$\alpha = ?$**

A) 85° B) 80° C) 75° D) 70° E) 65°

3.

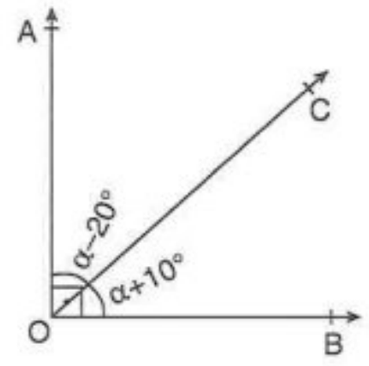


$[OA \perp [OB$
$m(A\widehat{O}C) = 3\alpha + 6°$
$m(C\widehat{O}B) = 30°$

$\Rightarrow$ **$\alpha = ?$**

A) 18° B) 19° C) 20° D) 21° E) 22°

4.

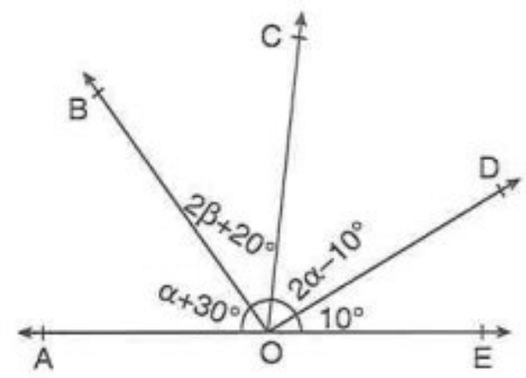


$[OA \perp [OB$
$m(A\widehat{O}C) = \alpha - 20°$
$m(C\widehat{O}B) = \alpha + 10°$

$\Rightarrow$ **$\alpha = ?$**

A) 30° B) 40° C) 50° D) 60° E) 70°

5.

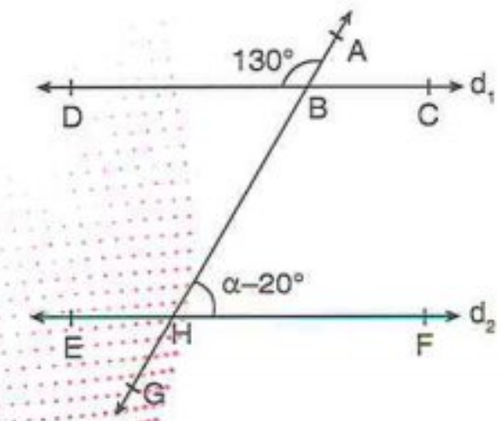


$m(A\widehat{O}C) = m(B\widehat{O}D)$

$\Rightarrow$ **$\beta = ?$**

A) 5° B) 8° C) 13° D) 15° E) 20°

6.



$d_1 \mathbin{/\!/} d_2$
$m(A\widehat{B}D) = 130°$
$m(B\widehat{H}F) = \alpha - 20°$

$\Rightarrow$ **$\alpha = ?$**

A) 40° B) 50° C) 60° D) 70° E) 80°

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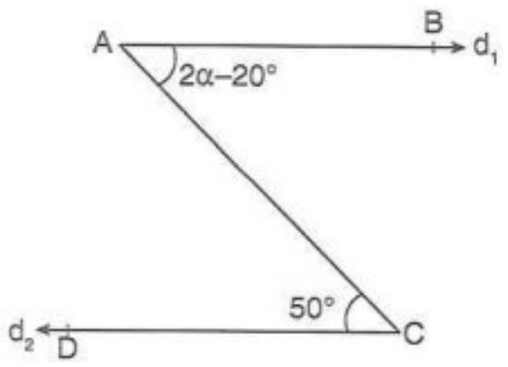
7.



$d_1 \,//\, d_2$

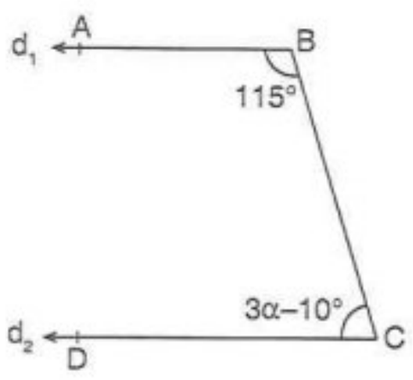
$m(\widehat{BAC}) = 2\alpha - 20°$

$m(\widehat{ACD}) = 50°$

$\Rightarrow \alpha = ?$

A) 20° B) 25° C) 30° D) 35° E) 40°

8.

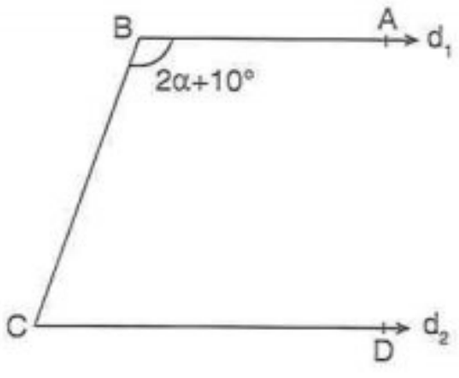


$d_1 \,//\, d_2$

$\Rightarrow \alpha = ?$

A) 45° B) 40° C) 35° D) 30° E) 25°

9.



$d_1 \,//\, d_2$

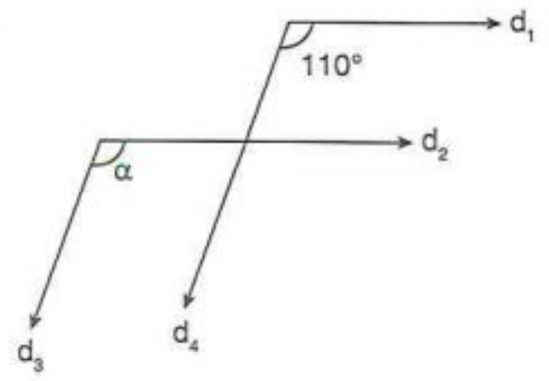
$m(\widehat{ABC}) = 2\alpha + 10°$

$m(\widehat{BCD}) = \alpha + 20°$

$\Rightarrow \alpha = ?$

A) 60° B) 50° C) 45° D) 40° E) 35°

10.



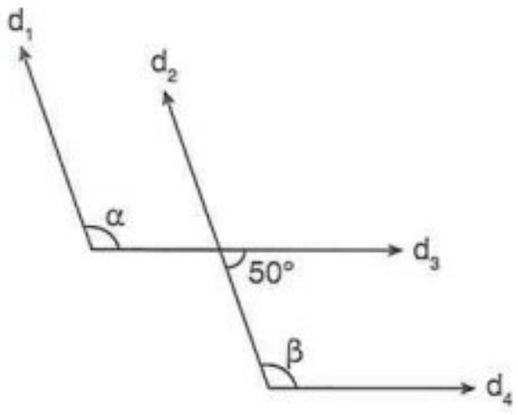
$d_1 \,//\, d_2$

$d_3 \,//\, d_4$

$\Rightarrow \alpha = ?$

A) 70° B) 80° C) 90° D) 100° E) 110°

11.



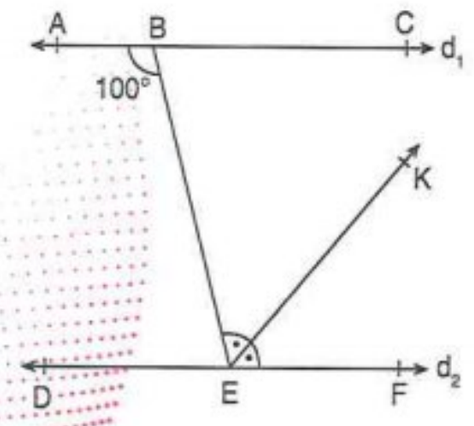
$d_1 \,//\, d_2$

$d_3 \,//\, d_4$

$\Rightarrow \alpha + \beta = ?$

A) 100° B) 130° C) 160° D) 200° E) 260°

12.



$d_1 \,//\, d_2$

$m(\widehat{ABE}) = 100°$

$m(\widehat{BEK}) = m(\widehat{KEF})$

$\Rightarrow m(\widehat{BEK}) = ?$

A) 80° B) 70° C) 60° D) 50° E) 40°

1. C	2. D	3. A	4. C	5. A	6. D
7. D	8. E	9. B	10. E	11. E	12. D

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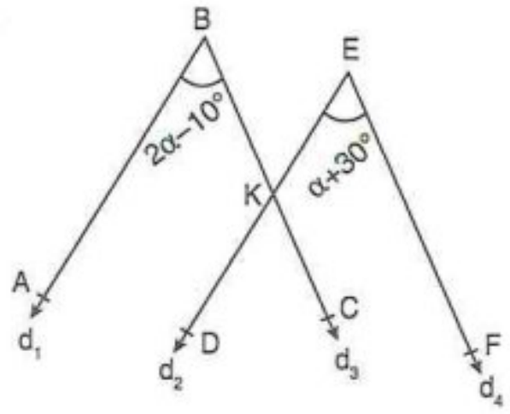
13.

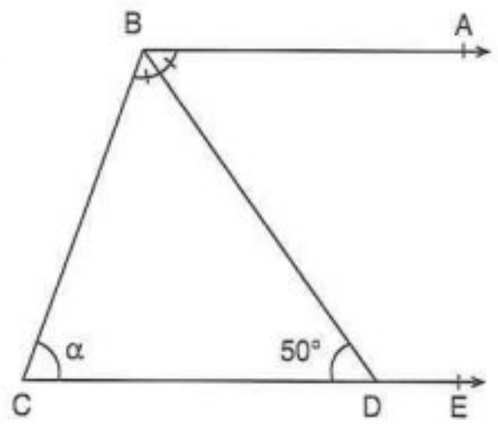


$d_1 \,//\, d_2$
$d_3 \,//\, d_4$
$m(\widehat{ABC}) = 2\alpha - 10°$
$m(\widehat{DEF}) = \alpha + 30°$

⇒ $m(\widehat{DKC}) = ?$

A) 50° B) 60° C) 70° D) 80° E) 90°

14.

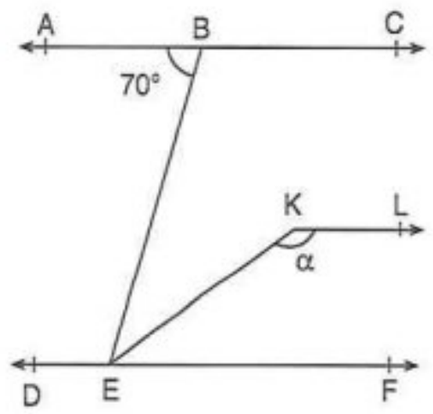


[BA // [CE
[BD] açıortay (*bisector*)
$m(\widehat{BDC}) = 50°$

⇒ $\alpha = ?$

A) 80° B) 75° C) 70° D) 65° E) 60°

15.

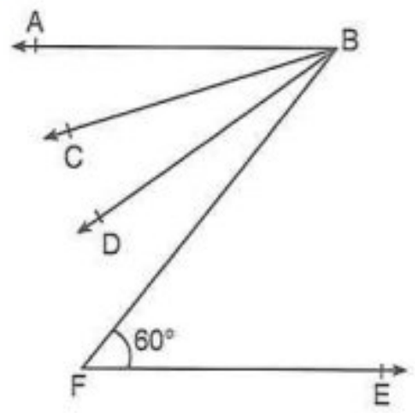


AC // [KL // DF
$m(\widehat{BEK}) = m(\widehat{KEF})$
$m(\widehat{ABE}) = 70°$

⇒ $m(\widehat{EKL}) = \alpha = ?$

A) 125° B) 130° C) 135° D) 140° E) 145°

16.

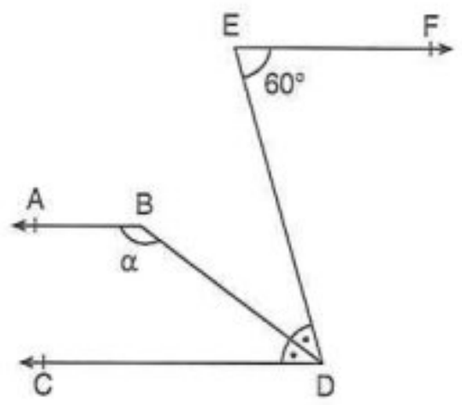


[BA // [FE
$m(\widehat{ABC}) = m(\widehat{CBD}) = m(\widehat{DBF})$
$m(\widehat{BFE}) = 60°$

⇒ $m(\widehat{CBD}) = ?$

A) 15° B) 20° C) 25° D) 30° E) 35°

17.

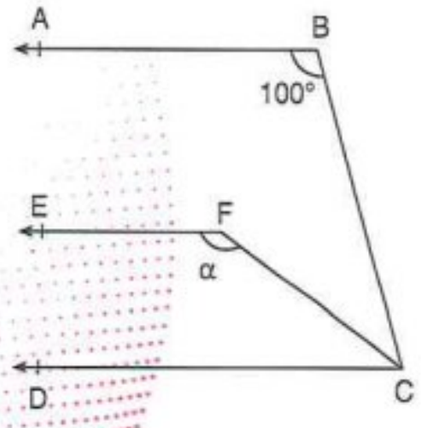


[EF // [BA // [DC
$m(\widehat{EDB}) = m(\widehat{BDC})$
$m(\widehat{DEF}) = 60°$

⇒ $m(\widehat{ABD}) = \alpha = ?$

A) 130° B) 135° C) 145° D) 150° E) 155°

18.



[BA // [FE // [CD
$m(\widehat{ABC}) = 100°$
$m(\widehat{BCF}) = 20°$

⇒ $m(\widehat{EFC}) = \alpha = ?$

A) 105° B) 110° C) 115° D) 120° E) 125°

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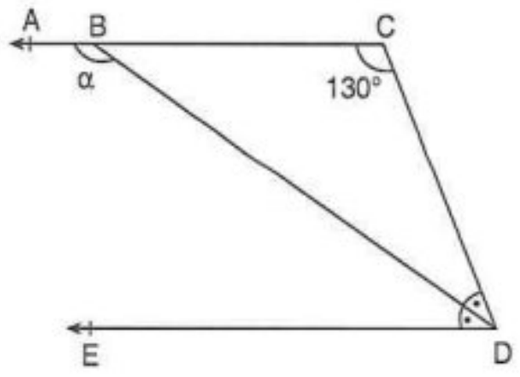
19.



[CA // [DE
$m(\widehat{ACD}) = 130°$
[BD] açıortay (*bisector*)

⇒ $m(\widehat{ABD}) = ?$

A) 145° B) 150° C) 155° D) 160° E) 165°

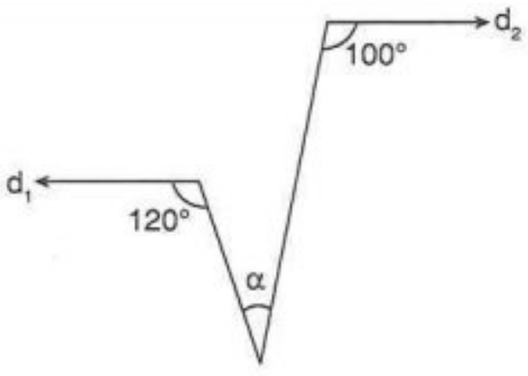
20.

[BA // CF
$m(\widehat{BDC}) = 80°$
$m(\widehat{ABE}) = m(\widehat{EBD})$

⇒ $m(\widehat{BEF}) = \alpha = ?$

A) 145° B) 140° C) 130° D) 125° E) 115°

21.

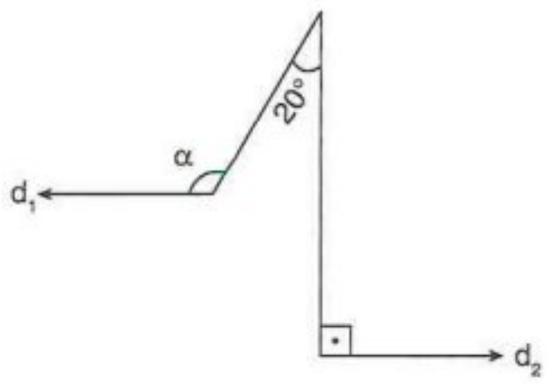


$d_1 // d_2$

⇒ $\alpha = ?$

A) 10° B) 20° C) 30° D) 40° E) 50°

22.

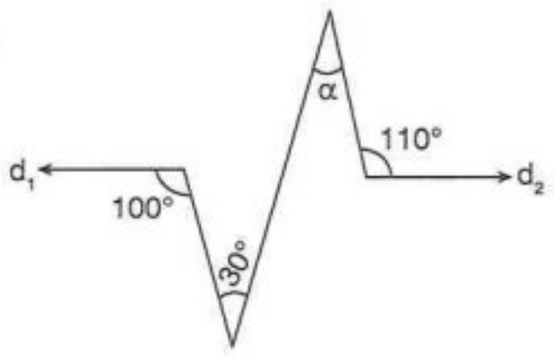


$d_1 // d_2$

⇒ $\alpha = ?$

A) 95° B) 105° C) 110° D) 115° E) 120°

23.

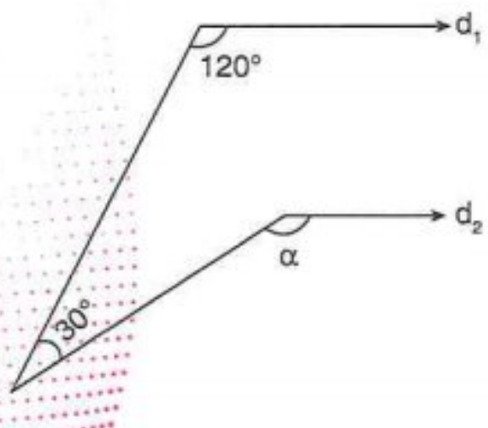


$d_1 // d_2$

⇒ $\alpha = ?$

A) 30° B) 40° C) 50° D) 60° E) 70°

24.



$d_1 // d_2$

⇒ $\alpha = ?$

A) 140° B) 145° C) 150° D) 155° E) 160°

13. C	14. A	15. E	16. B	17. D	18. D
19. C	20. B	21. D	22. C	23. B	24. C

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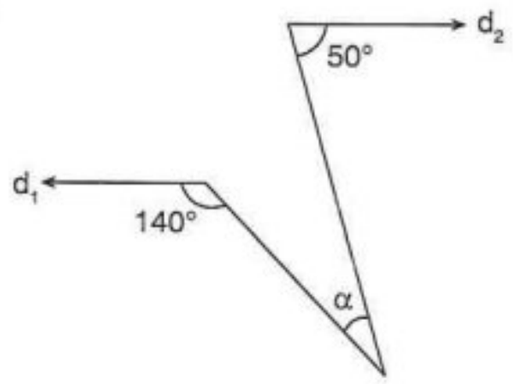
25.

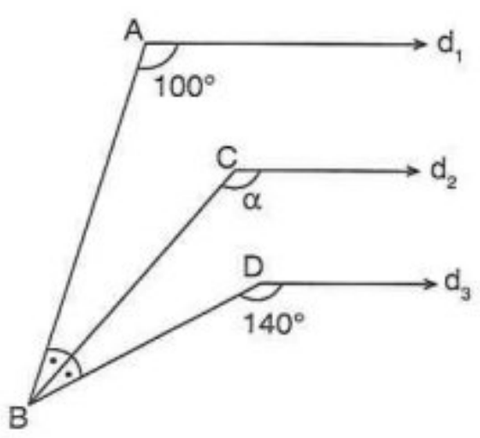


$d_1 \,//\, d_2$

$\Rightarrow \alpha = ?$

A) 5° B) 10° C) 15° D) 20° E) 25°

26.



$d_1 \,//\, d_2 \,//\, d_3$

[BC] açıortay (*bisector*)

$\Rightarrow \alpha = ?$

A) 80° B) 90° C) 100° D) 110° E) 120°

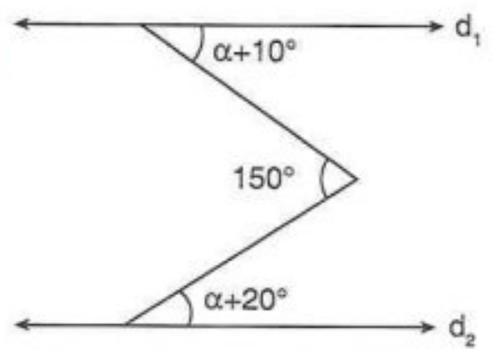
27.

$d_1 \,//\, d_2$

$\Rightarrow \alpha = ?$

A) 20° B) 30° C) 40° D) 50° E) 60°

28.

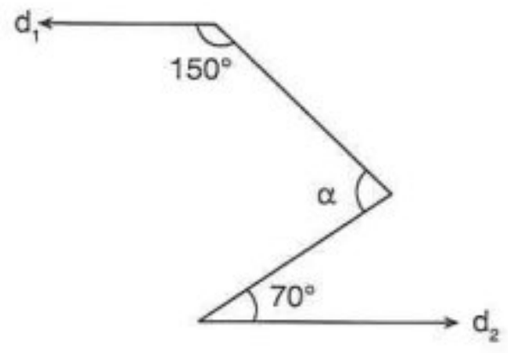


$d_1 \,//\, d_2$

$\Rightarrow \alpha = ?$

A) 100° B) 75° C) 65° D) 60° E) 55°

29.

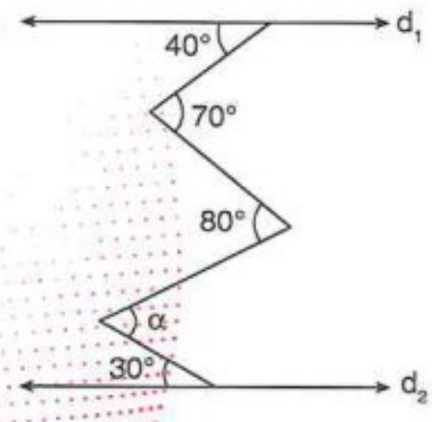


$d_1 \,//\, d_2$

$\Rightarrow \alpha = ?$

A) 120° B) 110° C) 100° D) 90° E) 80°

30.



$d_1 \,//\, d_2$

$\Rightarrow \alpha = ?$

A) 120° B) 100° C) 90° D) 80° E) 70°

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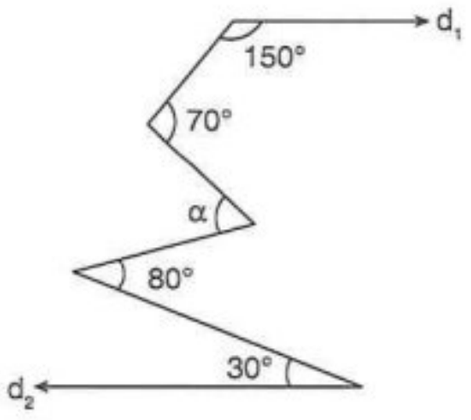
31.

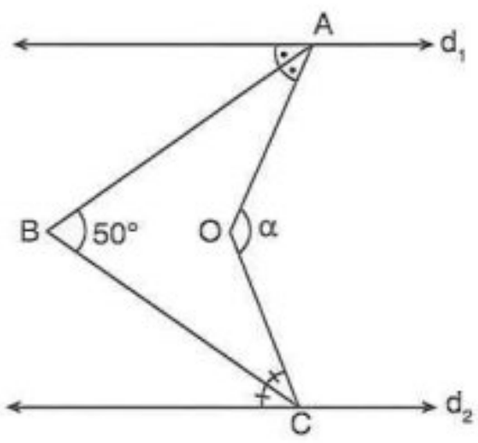


$d_1 \,//\, d_2$

$\Rightarrow \alpha = ?$

A) 110° B) 100° C) 90° D) 85° E) 75°

32.

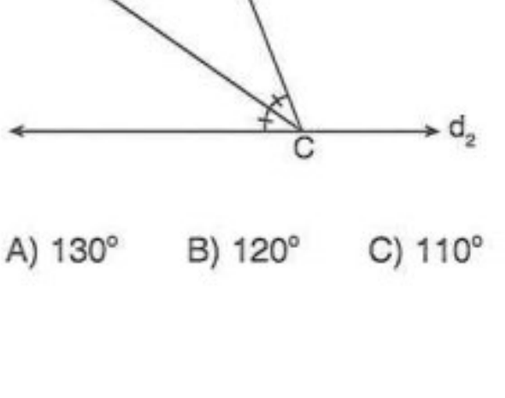


$d_1 \,//\, d_2$

$\Rightarrow \alpha = ?$

A) 130° B) 120° C) 110° D) 100° E) 90°

33.



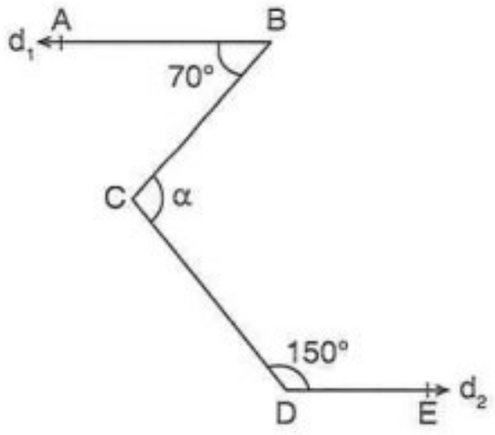
$d_1 \,//\, d_2$

$m(\widehat{BCD}) = m(\widehat{CDE})$

$\Rightarrow \alpha = ?$

A) 100° B) 110° C) 120° D) 130° E) 140°

34.



$d_1 \,//\, d_2$

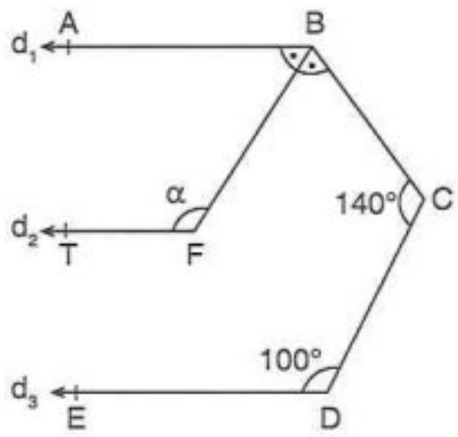
$m(\widehat{ABC}) = 70°$

$m(\widehat{CDE}) = 150°$

$\Rightarrow m(\widehat{BCD}) = \alpha = ?$

A) 70° B) 80° C) 90° D) 100° E) 110°

35.



$d_1 \,//\, d_2 \,//\, d_3$

[BF] açıortay (*bisector*)

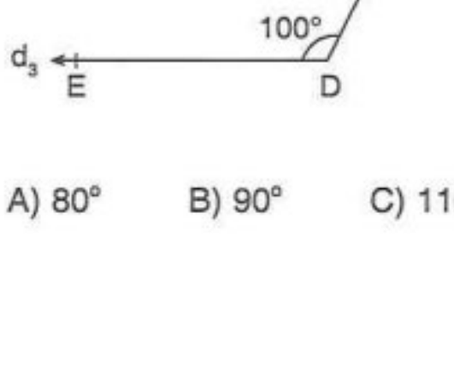
$m(\widehat{BCD}) = 140°$

$m(\widehat{CDE}) = 100°$

$\Rightarrow \alpha = ?$

A) 80° B) 90° C) 110° D) 120° E) 150°

36.



$d_1 \,//\, d_2$

$\Rightarrow \alpha = ?$

A) 110° B) 125° C) 130° D) 140° E) 150°

25. B	26. E	27. A	28. D	29. C	30. D
31. C	32. D	33. D	34. D	35. D	36. A

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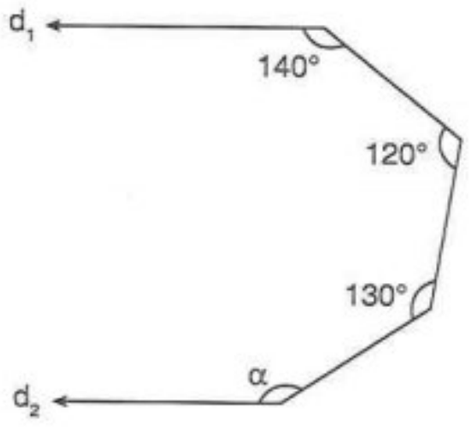
37.

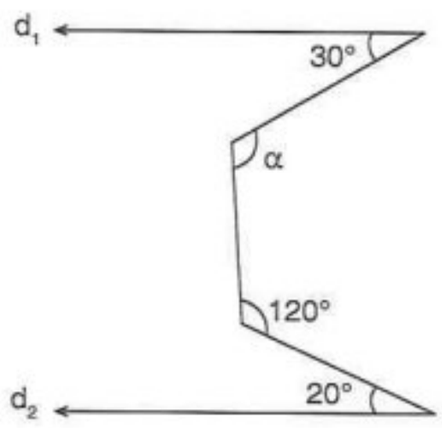


$d_1 \,//\, d_2$

$\Rightarrow \alpha = ?$

A) 135° B) 140° C) 145° D) 150° E) 155°

38.

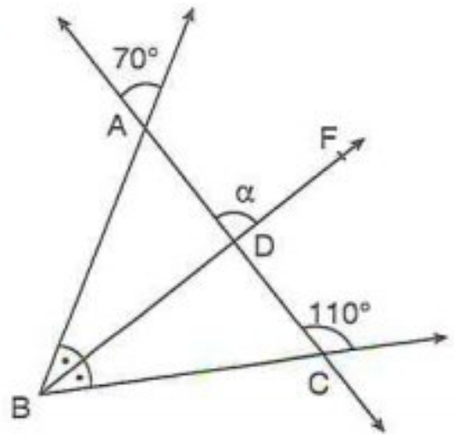


$d_1 \,//\, d_2$

$\Rightarrow \alpha = ?$

A) 115° B) 110° C) 105° D) 100° E) 95°

39.

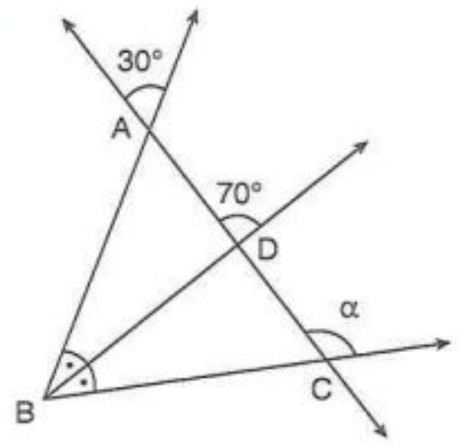


[BF açıortay (*bisector*)

$\Rightarrow \alpha = ?$

A) 130° B) 110° C) 100° D) 95° E) 90°

40.

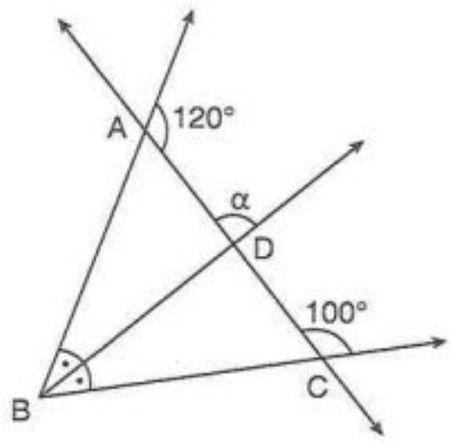


[BD] açıortay (*bisector*)

$\Rightarrow \alpha = ?$

A) 120° B) 110° C) 100° D) 90° E) 80°

41.

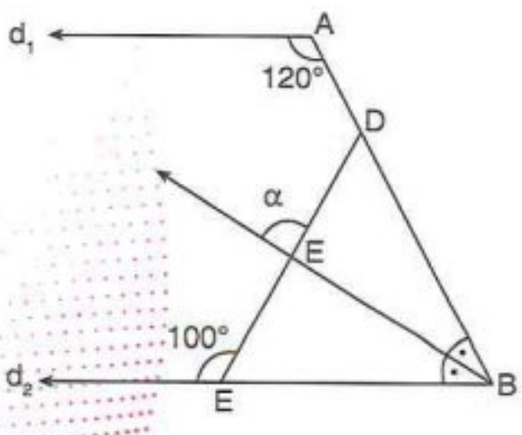


[BD] açıortay (*bisector*)

$\Rightarrow \alpha = ?$

A) 80° B) 90° C) 100° D) 110° E) 120°

42.



[BE] açıortay (*bisector*)

$d_1 \,//\, d_2$

$\Rightarrow \alpha = ?$

A) 60° B) 70° C) 80° D) 85° E) 90°

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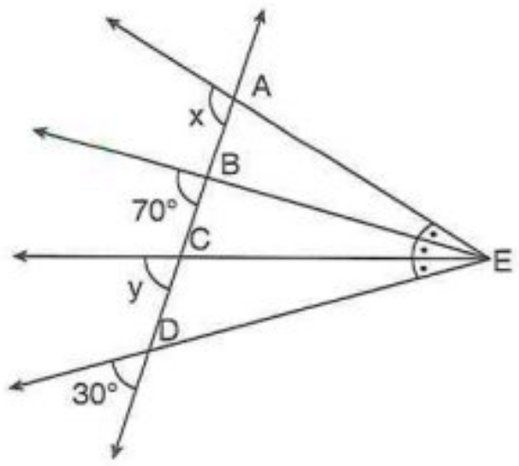
43.

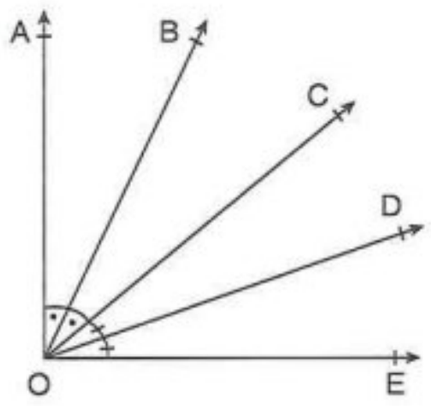


[EB], [EC] açıortay (*bisector*)

⇒ **x–y = ?**

A) 80° B) 70° C) 60° D) 50° E) 40°

44.



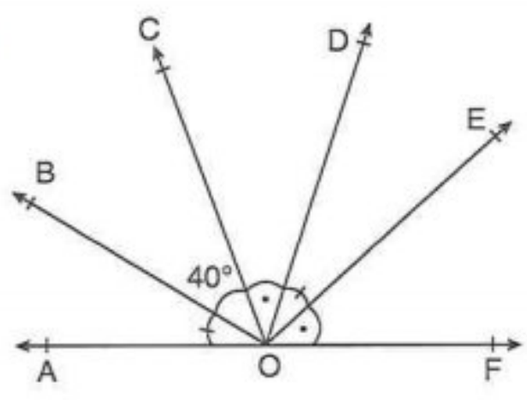
[OA ⊥ [OE

[OB, [OD açıortay (*bisector*)

⇒ **m(BÔD) = ?**

A) 45° B) 50° C) 60° D) 70° E) 90°

45.



m(BÔA) = m(DÔE)

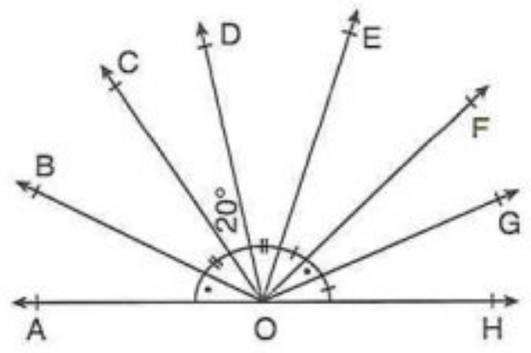
m(CÔD) = m(EÔF)

m(BÔC) = 40°

⇒ **m(AÔD) = ?**

A) 70° B) 85° C) 90° D) 95° E) 110°

46.



m(AÔB) = m(FÔG)

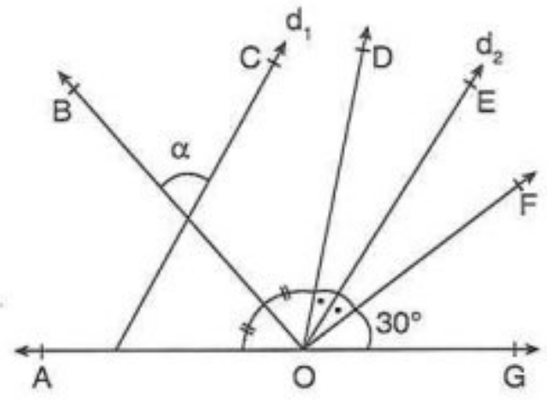
m(BÔC) = m(DÔE)

m(EÔF) = m(GÔH)

⇒ **m(DÔG) = ?**

A) 50° B) 60° C) 70° D) 80° E) 90°

47.



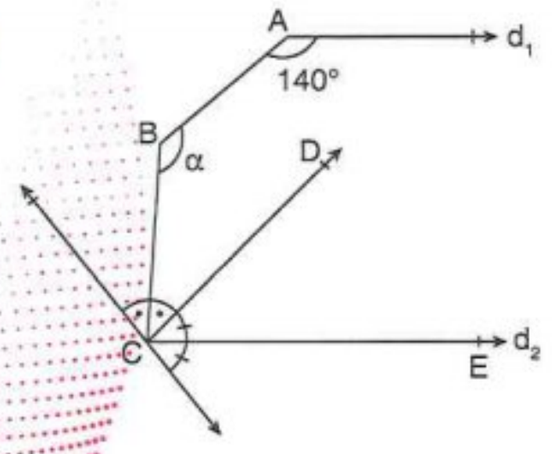
$d_1 \parallel d_2$

[OB, [OE açıortay (*bisector*)

⇒ **α = ?**

A) 105° B) 90° C) 85° D) 75° E) 60°

48.



$d_1 \parallel d_2$

[CB], [CE açıortay (*bisector*)

⇒ **α = ?**

A) 70° B) 80° C) 95° D) 120° E) 130°

37. D	38. B	39. E	40. B	41. A	42. B
43. E	44. A	45. E	46. D	47. D	48. E

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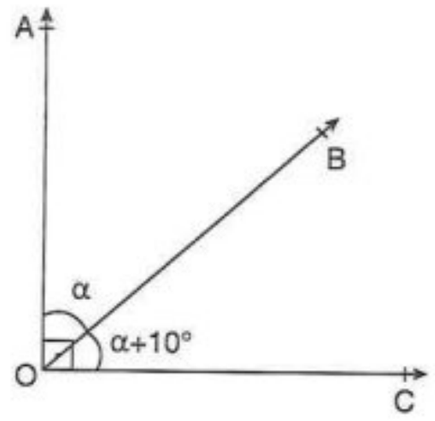
1.



$[OA \perp [OC$

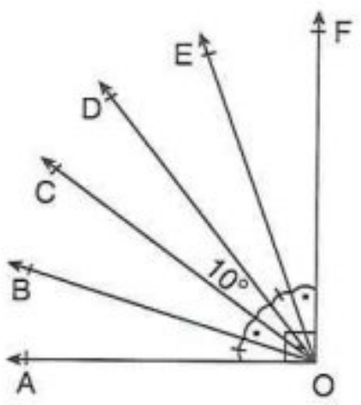
$m(\widehat{AOB}) = \alpha$

$m(\widehat{COB}) = \alpha + 10°$

$\Rightarrow \alpha = ?$

A) 20° B) 30° C) 40° D) 50° E) 60°

2.



$[OF \perp [OA$

$m(\widehat{EOF}) = m(\widehat{BOC})$

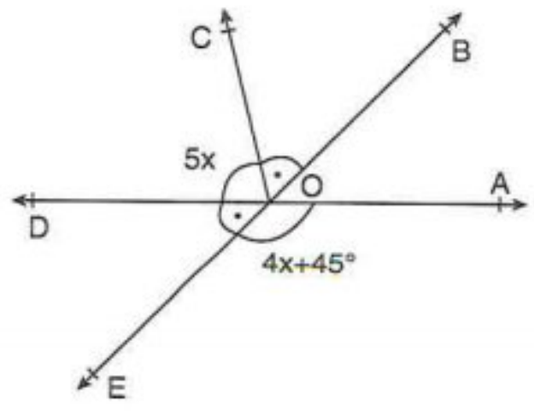
$m(\widehat{AOB}) = m(\widehat{DOE})$

$m(\widehat{COD}) = 10°$

$\Rightarrow m(\widehat{BOE}) = ?$

A) 40° B) 50° C) 60° D) 70° E) 80°

3.



$m(\widehat{DOE}) = m(\widehat{COB})$

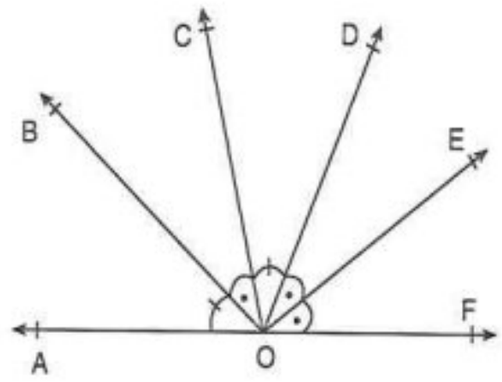
$m(\widehat{AOE}) = 4x + 45°$

$m(\widehat{DOC}) = 5x$

$\Rightarrow x = ?$

A) 10° B) 15° C) 20° D) 25° E) 30°

4.



$m(\widehat{AOB}) = m(\widehat{COD})$

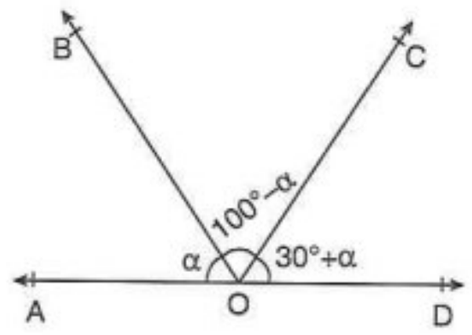
$m(\widehat{BOC}) = m(\widehat{DOE}) = m(\widehat{EOF})$

$m(\widehat{COD}) = 15°$

$\Rightarrow m(\widehat{BOE}) = ?$

A) 65° B) 75° C) 85° D) 115° E) 135°

5.



$m(\widehat{AOB}) = \alpha$

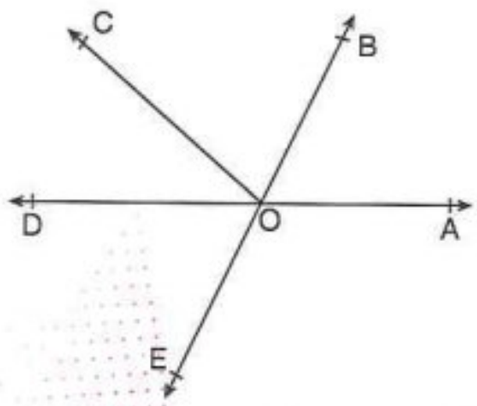
$m(\widehat{BOC}) = 100° - \alpha$

$m(\widehat{COD}) = \alpha + 30°$

$\Rightarrow \alpha = ?$

A) 30° B) 40° C) 50° D) 60° E) 70°

6.



$m(\widehat{DOE}) = 2m(\widehat{COB}) = m(\widehat{DOC}) + 20$

$\Rightarrow m(\widehat{EOA}) = ?$

A) 110° B) 100° C) 90° D) 80° E) 70°

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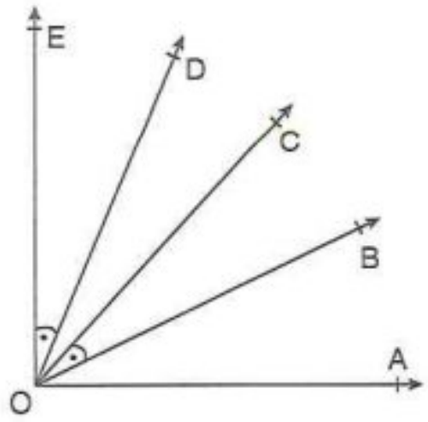
7.



$[OE \perp [OA$

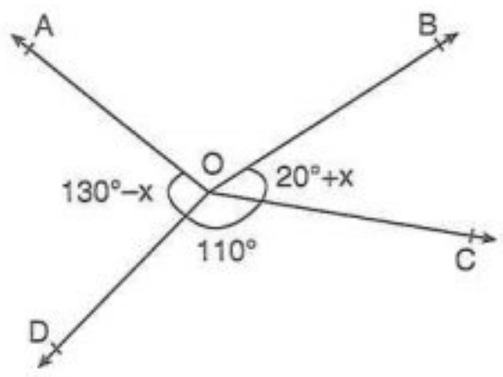
$m(\widehat{DOC}) = 2m(\widehat{COB}) = 4m(\widehat{BOA})$

$m(\widehat{EOD}) = m(\widehat{COB})$

⇒ $m(\widehat{DOB}) = ?$

A) 10° B) 20° C) 30° D) 60° E) 70°

8.



$m(\widehat{BOC}) = 20° + x$

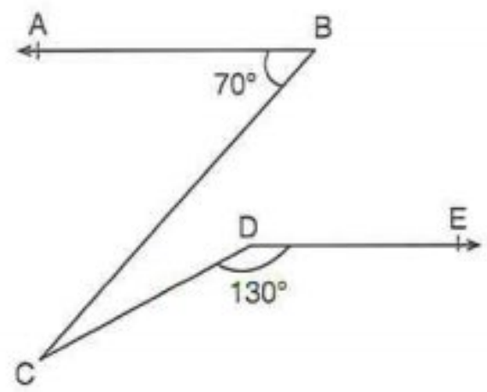
$m(\widehat{COD}) = 110°$

$m(\widehat{DOA}) = 130° - x$

⇒ $m(\widehat{AOB}) = ?$

A) 90° B) 100° C) 120° D) 130° E) 140°

9.



$[BA \,//\, [DE$

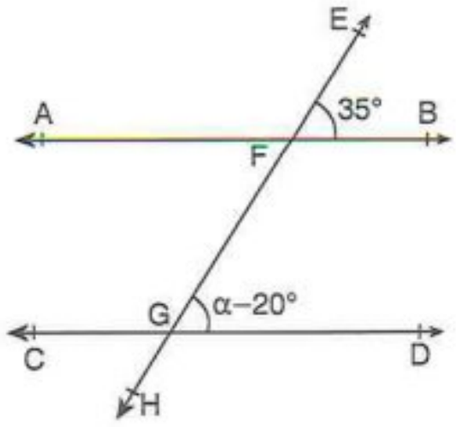
$m(\widehat{ABC}) = 70°$

$m(\widehat{CDE}) = 130°$

⇒ $m(\widehat{BCD}) = ?$

A) 20° B) 30° C) 40° D) 50° E) 60°

10.



$AB \,//\, CD$

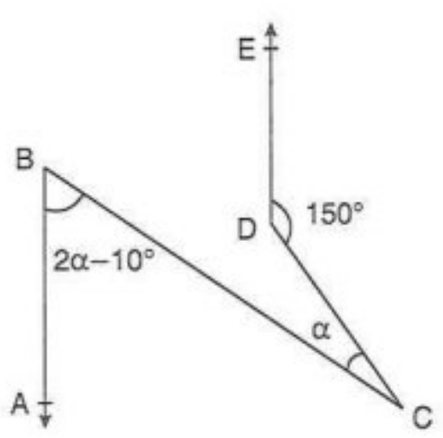
$m(\widehat{EFB}) = 35°$

$m(\widehat{EGD}) = \alpha - 20°$

⇒ $\alpha = ?$

A) 55° B) 40° C) 35° D) 30° E) 25°

11.



$[BA \,//\, [DE$

$m(\widehat{ABC}) = 2\alpha - 10°$

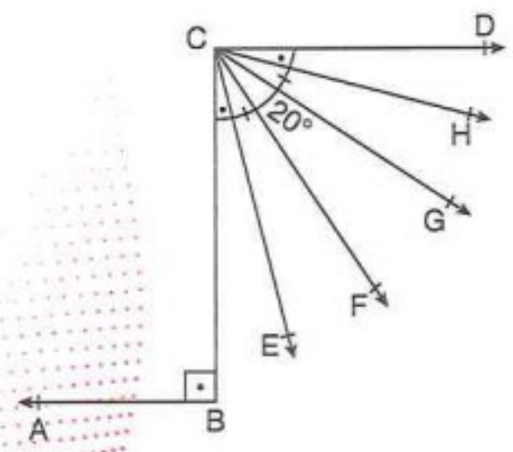
$m(\widehat{BCD}) = \alpha$

$m(\widehat{CDE}) = 150°$

⇒ $\alpha = ?$

A) 10° B) 20° C) 30° D) 40° E) 50°

12.



$[BA \,//\, [CD$

$m(\widehat{DCH}) = m(\widehat{BCE})$

$m(\widehat{HCG}) = m(\widehat{ECF})$

$m(\widehat{GCF}) = 20°$

$m(\widehat{ABC}) = 90°$

⇒ $m(\widehat{DCF}) = ?$

A) 40° B) 45° C) 50° D) 55° E) 65°

1. C	2. B	3. E	4. D	5. C	6. B
7. D	8. B	9. A	10. A	11. D	12. D

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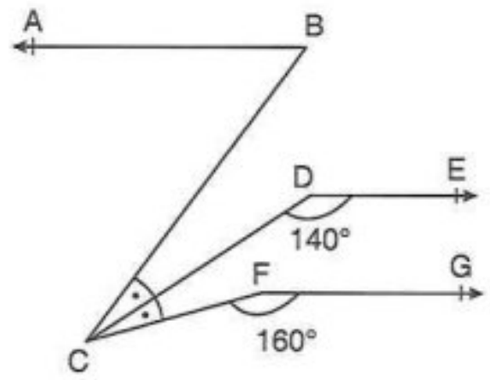
الممسوحة ضوئيا بـ CamScanner

1.

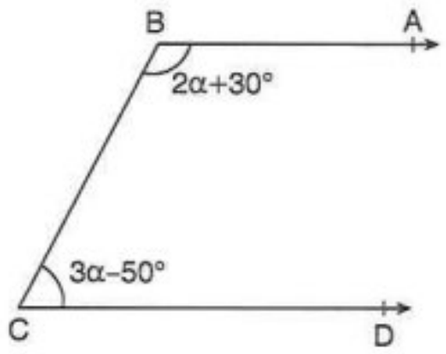


[BA // [DE // [FG
$m(\widehat{BCD}) = m(\widehat{DCF})$
$m(\widehat{CFG}) = 160°$
$m(\widehat{CDE}) = 140°$

⇒ $m(\widehat{ABC}) = ?$

A) 40° B) 50° C) 60° D) 70° E) 80°

2.

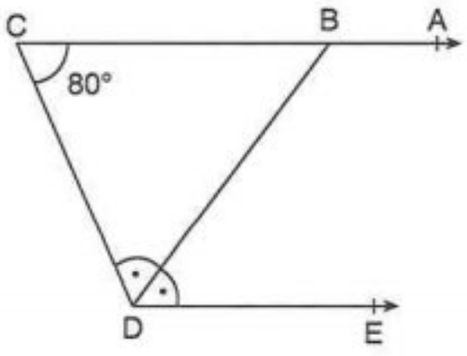


[BA // [CD
$m(\widehat{ABC}) = 2\alpha + 30°$
$m(\widehat{BCD}) = 3\alpha - 50°$

⇒ $\alpha = ?$

A) 40° B) 50° C) 55° D) 65° E) 80°

3.

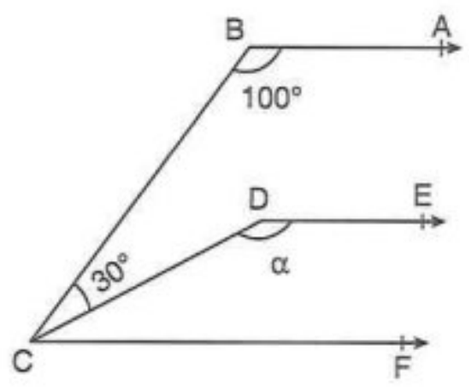


[CA // [DE
$m(\widehat{CDB}) = m(\widehat{BDE})$
$m(\widehat{ACD}) = 80°$

⇒ $m(\widehat{ABD}) = ?$

A) 90° B) 100° C) 110° D) 120° E) 130°

4.

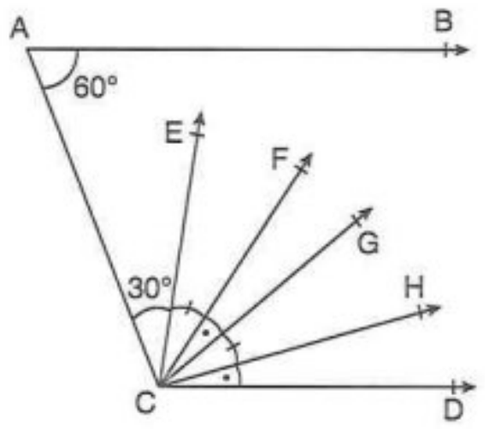


[BA // [DE // [CF
$m(\widehat{ABC}) = 100°$
$m(\widehat{BCD}) = 30°$

⇒ $m(\widehat{CDE}) = ?$

A) 100° B) 110° C) 120° D) 130° E) 150°

5.

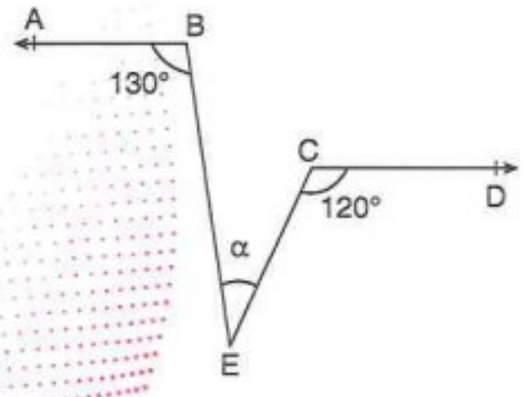


[AB // [CD
$m(\widehat{BAC}) = 60°$
$m(\widehat{ACE}) = 30°$
$m(\widehat{ECF}) = m(\widehat{GCH})$
$m(\widehat{FCG}) = m(\widehat{HCD})$

⇒ $m(\widehat{FCH}) = ?$

A) 45° B) 50° C) 55° D) 60° E) 65°

6.



[BA // [CD
$m(\widehat{ABC}) = 130°$
$m(\widehat{ECD}) = 120°$

⇒ $m(\widehat{BEC}) = \alpha = ?$

A) 40° B) 50° C) 60° D) 70° E) 80°

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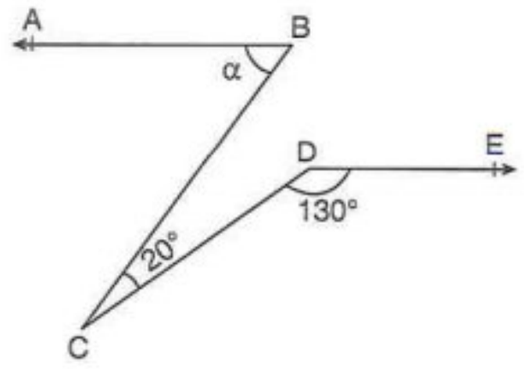
الممسوحة ضوئيا بـ CamScanner

7.



$[BA \parallel [DE$
$m(\widehat{BCD}) = 20°$
$m(\widehat{CDE}) = 130°$

$\Rightarrow$ **$m(\widehat{ABC}) = \alpha = ?$**

A) 40° B) 50° C) 60° D) 70° E) 80°

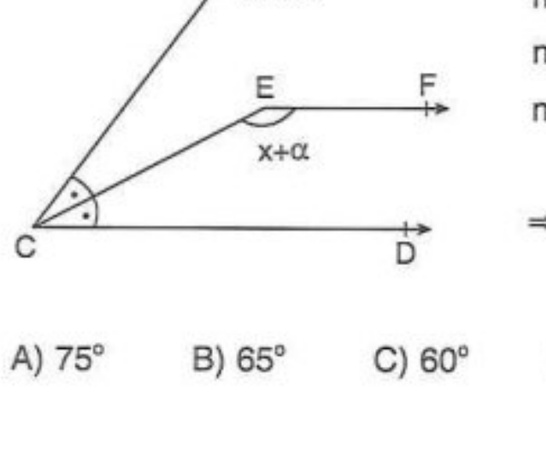
8.

$[BA \parallel [EF \parallel [CD$
$m(\widehat{ABC}) = 2x - 30°$
$m(\widehat{FEC}) = x + \alpha$
$m(\widehat{BCE}) = m(\widehat{ECD})$

$\Rightarrow$ **$\alpha = ?$**

A) 75° B) 65° C) 60° D) 55° E) 50°

9.

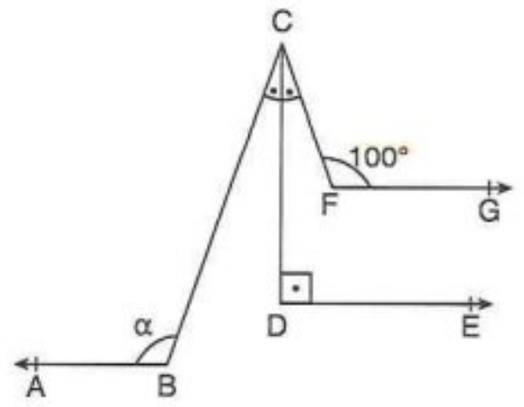


$[BA \parallel [DE$
$m(\widehat{EDC}) = 120°$
$m(\widehat{BCD}) = 40°$

$\Rightarrow$ **$m(\widehat{ABC}) = ?$**

A) 70° B) 80° C) 90° D) 100° E) 120°

10.

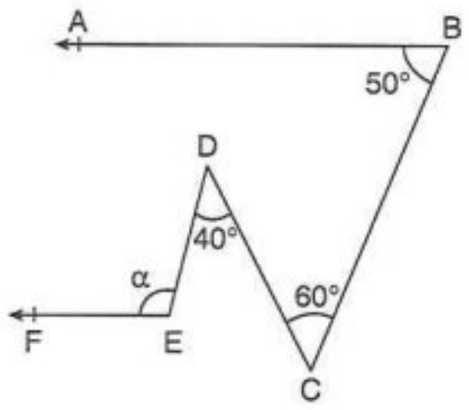


$[BA \parallel [FG \parallel [DE$
$[CD] \perp [DE$
$m(\widehat{CFG}) = 100°$

$\Rightarrow$ **$m(\widehat{ABC}) = \alpha = ?$**

A) 90° B) 100° C) 110° D) 120° E) 130°

11.

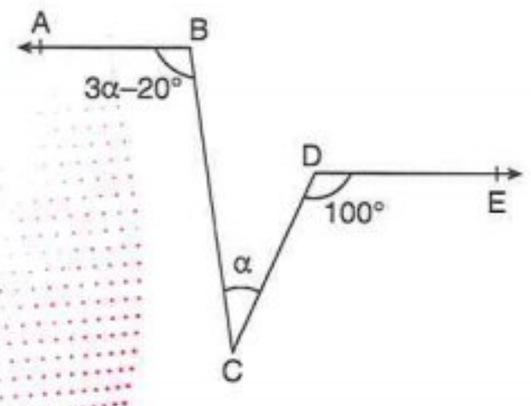


$[BA \parallel [EF$
$m(\widehat{ABC}) = 50°$
$m(\widehat{DCB}) = 60°$
$m(\widehat{EDC}) = 40°$

$\Rightarrow$ **$m(\widehat{FED}) = \alpha = ?$**

A) 95° B) 100° C) 105° D) 110° E) 120°

12.



$[BA \parallel [DE$
$m(\widehat{ABC}) = 3\alpha - 20°$
$m(\widehat{CDE}) = 100°$

$\Rightarrow$ **$m(\widehat{BCD}) = \alpha = ?$**

A) 50° B) 60° C) 70° D) 80° E) 90°

1. C	2. A	3. E	4. D	5. A	6. D
7. D	8. A	9. D	10. B	11. D	12. A

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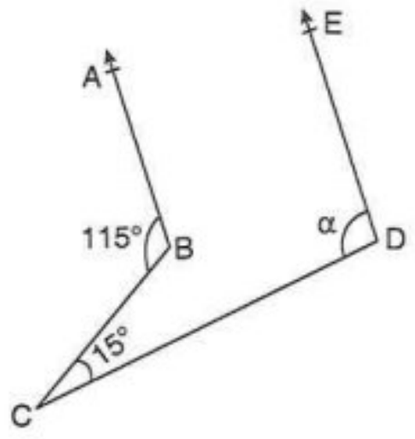
الممسوحة ضوئيا بـ CamScanner

1.

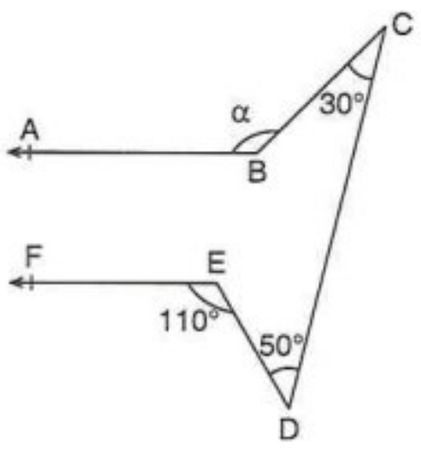


[BA // [DE
$m(\widehat{ABC}) = 115°$
$m(\widehat{BCD}) = 15°$

⇒ $m(\widehat{CDE}) = \alpha = ?$

A) 90° B) 100° C) 110° D) 120° E) 130°

2.



[BA // [EF
$m(\widehat{BCD}) = 30°$
$m(\widehat{EDC}) = 50°$
$m(\widehat{FED}) = 110°$

⇒ $m(\widehat{ABC}) = \alpha = ?$

A) 120° B) 130° C) 140° D) 150° E) 160°

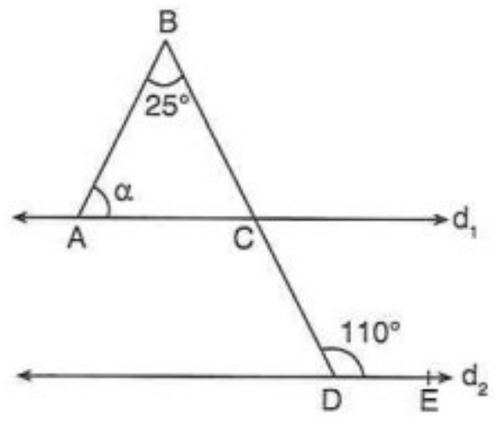
3.

[BA // [DE
$m(\widehat{CBA}) = 120°$
$m(\widehat{CDE}) = 50°$

⇒ $m(\widehat{DCB}) = \alpha = ?$

A) 50° B) 60° C) 70° D) 80° E) 90°

4.

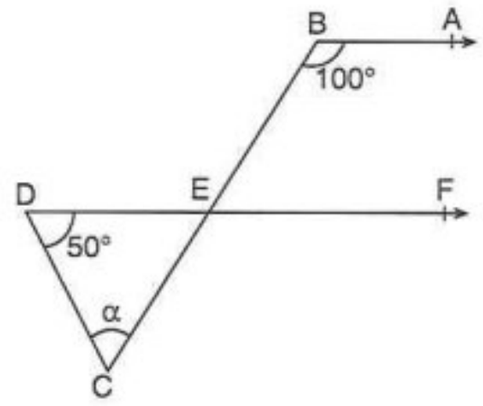


d_1 // d_2
$m(\widehat{ABC}) = 25°$
$m(\widehat{BDE}) = 110°$

⇒ $m(\widehat{BAC}) = \alpha = ?$

A) 65° B) 70° C) 75° D) 80° E) 85°

5.

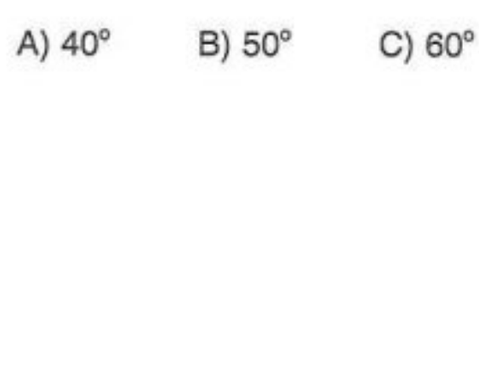


[BA // [DF
$m(\widehat{ABC}) = 100°$
$m(\widehat{FDC}) = 50°$

⇒ $m(\widehat{DCB}) = \alpha = ?$

A) 40° B) 50° C) 60° D) 70° E) 80°

6.



[BA // [DE
$m(\widehat{ABC}) = 110°$
$m(\widehat{BCD}) = 35°$

⇒ $m(\widehat{CDE}) = \alpha = ?$

A) 115° B) 125° C) 135° D) 145° E) 155°

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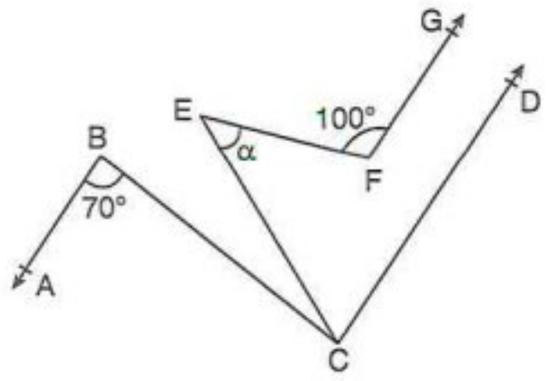
الممسوحة ضوئيا بـ CamScanner

7.



[BA // [CD // [FG

$4m(\widehat{BCE}) = 3m(\widehat{ECD})$

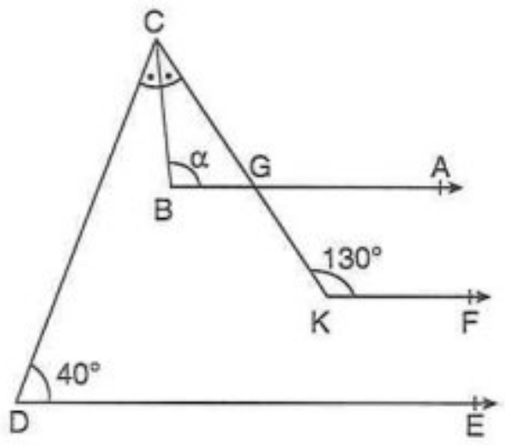
$m(\widehat{ABC}) = 70°$

$m(\widehat{EFG}) = 100°$

⇒ $\mathbf{m(\widehat{CEF}) = \alpha = ?}$

A) 15° B) 30° C) 50° D) 60° E) 80°

8.



[BA // [KF // [DE

[CB] açıortay (*bisector*)

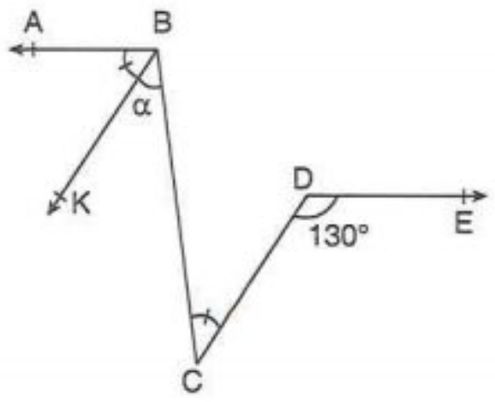
$m(\widehat{CKF}) = 130°$

$m(\widehat{CDE}) = 40°$

⇒ $\mathbf{m(\widehat{CBA}) = ?}$

A) 55° B) 60° C) 65° D) 75° E) 85°

9.



[BA // [DE

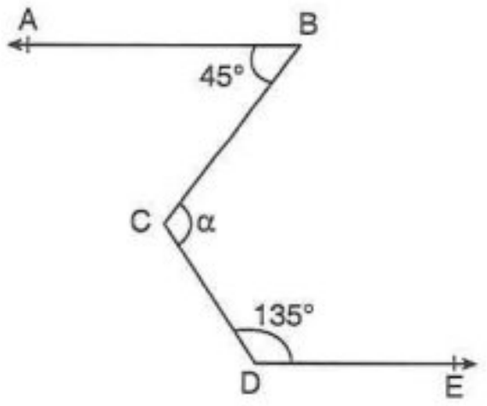
$m(\widehat{ABK}) = m(\widehat{BCD})$

$m(\widehat{CDE}) = 130°$

⇒ $\mathbf{m(\widehat{KBC}) = \alpha = ?}$

A) 40° B) 45° C) 50° D) 55° E) 65°

10.



[BA // [DE

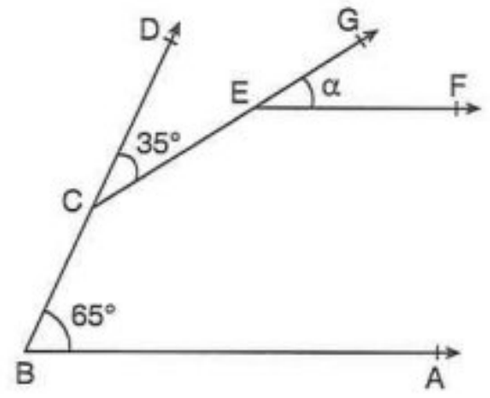
$m(\widehat{ABC}) = 45°$

$m(\widehat{CDE}) = 135°$

⇒ $\mathbf{m(\widehat{BCD}) = \alpha = ?}$

A) 80° B) 90° C) 95° D) 100° E) 110°

11.



[BA // [EF

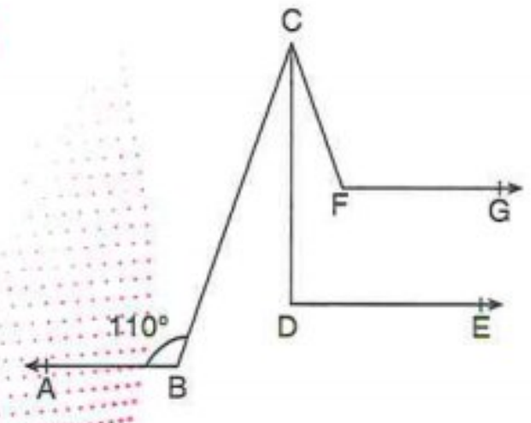
$m(\widehat{DBA}) = 65°$

$m(\widehat{DCG}) = 35°$

⇒ $\mathbf{m(\widehat{GEF}) = ?}$

A) 20° B) 30° C) 40° D) 50° E) 60°

12.



[BA // [FG // [DE

$2m(\widehat{BCD}) = 3m(\widehat{DCF})$

$m(\widehat{ABC}) = 110°$

$m(\widehat{CDE}) = 100°$

⇒ $\mathbf{m(\widehat{CFG}) = ?}$

A) 110° B) 120° C) 130° D) 140° E) 150°

1. B	2. D	3. C	4. E	5. B	6. D
7. D	8. E	9. C	10. B	11. B	12. B

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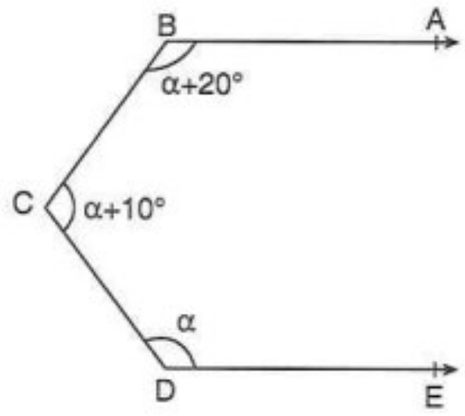
الممسوحة ضوئيا بـ CamScanner

1.

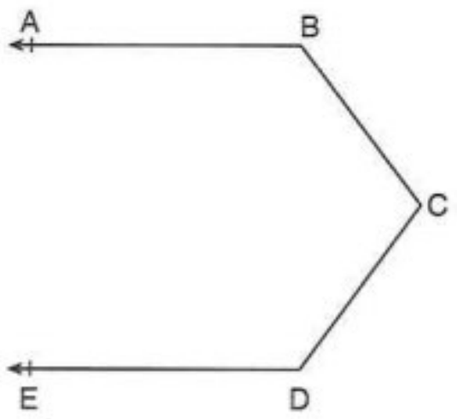


[BA // [DE
$m(\widehat{ABC}) = \alpha + 20^\circ$
$m(\widehat{BCD}) = \alpha + 10^\circ$
$m(\widehat{CDE}) = \alpha$

⇒ $\alpha = ?$

A) 110° B) 120° C) 130° D) 140° E) 150°

2.

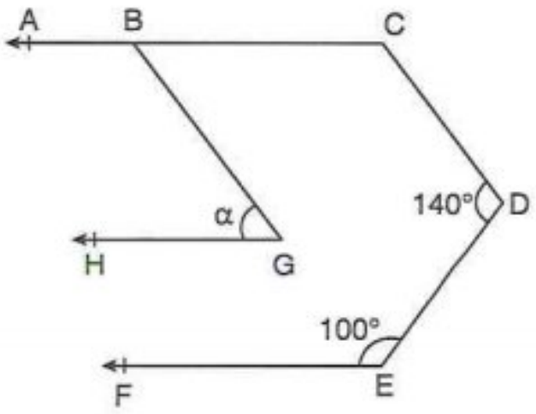


[BA // [DE
$4m(\widehat{ABC}) = 3m(\widehat{BCD}) = 4m(\widehat{CDE})$

⇒ $m(\widehat{BCD}) = ?$

A) 36° B) 72° C) 108° D) 144° E) 168°

3.

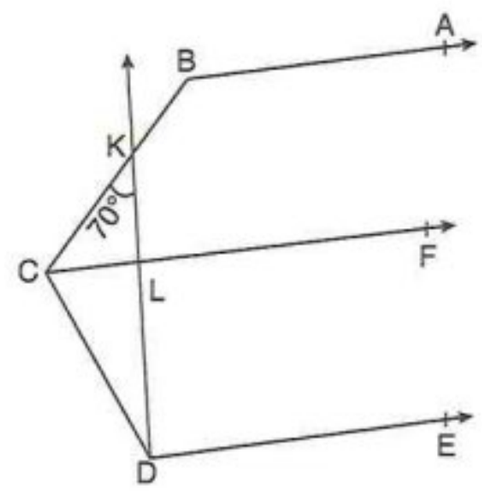


[CA // [GH // [EF
[BG] // [CD]
$m(\widehat{CDE}) = 140^\circ$
$m(\widehat{FED}) = 100^\circ$

⇒ $m(\widehat{HGB}) = \alpha = ?$

A) 40° B) 50° C) 60° D) 70° E) 80°

4.

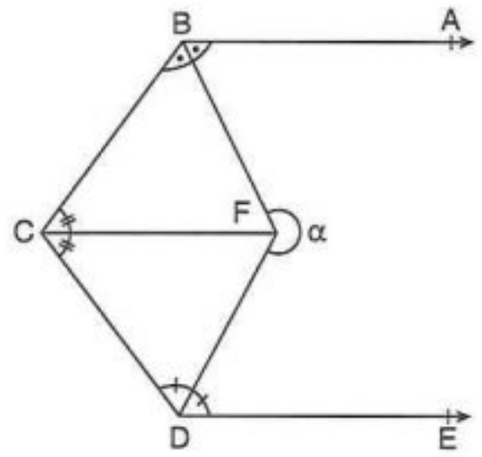


[BA // [CF // [DE
$2m(\widehat{BCF}) = m(\widehat{FCD})$
$m(\widehat{CKD}) = 70^\circ$
$m(\widehat{KLF}) = 100^\circ$

⇒ $m(\widehat{CBA}) - m(\widehat{CDE}) = ?$

A) 10° B) 20° C) 30° D) 50° E) 55°

5.

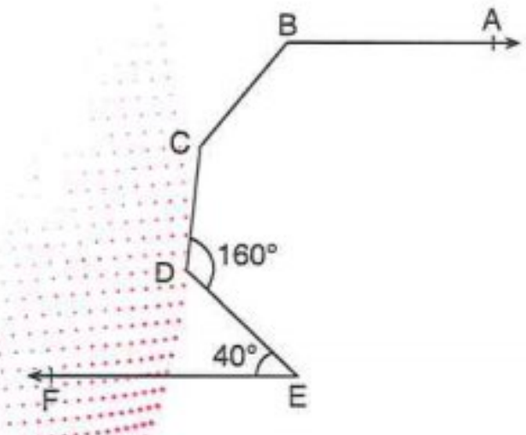


[BA // [DE
[BF], [CF], [DF] açıortay (*bisector*)
$m(\widehat{BCF}) = 70^\circ$

⇒ $\alpha = ?$

A) 200° B) 210° C) 230° D) 240° E) 250°

6.



[BA // [EF
$m(\widehat{CDE}) = 160^\circ$
$m(\widehat{DEF}) = 40^\circ$

⇒ $m(\widehat{ABC}) = m(\widehat{BCD}) = ?$

A) 100° B) 110° C) 120° D) 130° E) 140°

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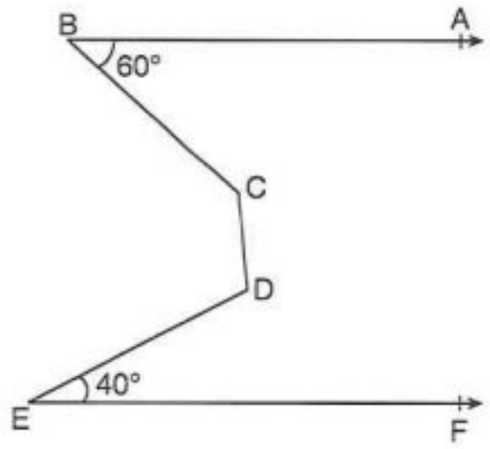
7.

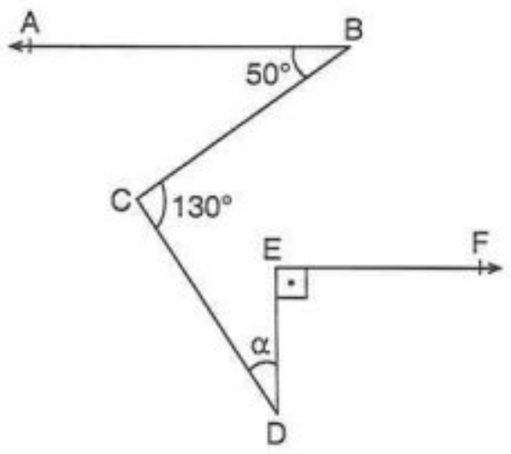


[BA // [EF
$m(\widehat{ABC}) = 60°$
$m(\widehat{DEF}) = 40°$
$3m(\widehat{BCD}) = 4m(\widehat{CDE})$

⇒ $m(\widehat{BCD}) = ?$

A) 100° B) 120° C) 130° D) 140° E) 160°

8.

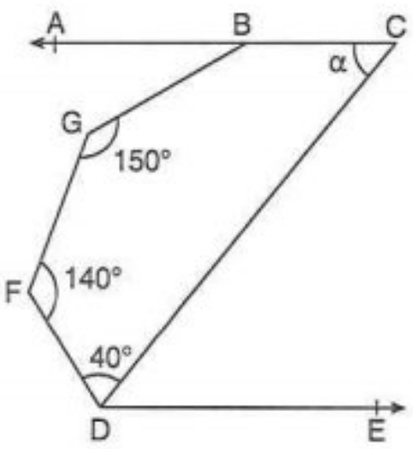


[BA // [EF
$m(\widehat{ABC}) = 50°$
$m(\widehat{BCD}) = 130°$
$m(\widehat{DEF}) = 90°$

⇒ $m(\widehat{CDE}) = \alpha = ?$

A) 5° B) 10° C) 15° D) 20° E) 30°

9.

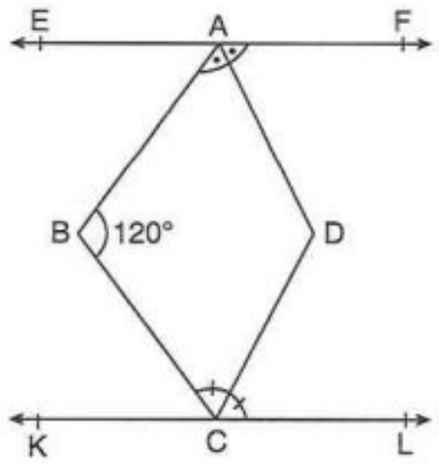


[CA // [DE
$m(\widehat{ABG}) = 30°$
$m(\widehat{BGF}) = 150°$
$m(\widehat{GFD}) = 140°$
$m(\widehat{FDC}) = 40°$

⇒ $m(\widehat{ACD}) = ?$

A) 20° B) 25° C) 40° D) 45° E) 60°

10.

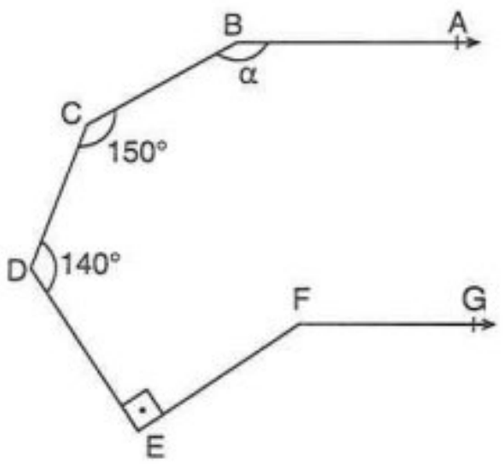


EF // KL
$m(\widehat{BAD}) = m(\widehat{DAF})$
$m(\widehat{BCD}) = m(\widehat{DCL})$
$m(\widehat{ABC}) = 120°$

⇒ $m(\widehat{ADC}) = ?$

A) 90° B) 100° C) 110° D) 120° E) 130°

11.

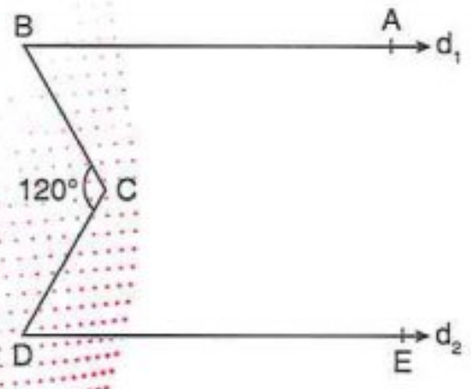


[BA // [FG
[FE] ⊥ [DE]
$m(\widehat{BCD}) = 150°$
$m(\widehat{CDE}) = m(\widehat{EFG}) = 140°$

⇒ $m(\widehat{ABC}) = ?$

A) 100° B) 120° C) 140° D) 150° E) 160°

12.



[BA // [DE
$5m(\widehat{ABC}) = 7m(\widehat{CDE})$
$m(\widehat{BCD}) = 120°$

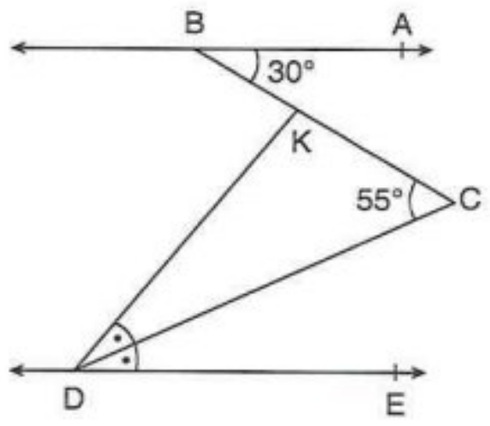
⇒ $m(\widehat{CDE}) = ?$

A) 20° B) 30° C) 40° D) 50° E) 70°

1. A	2. D	3. C	4. C	5. E	6. C
7. E	8. B	9. E	10. D	11. B	12. D

IRANINOVIN
الممسوحة ضوئيا بـ CamScanner

1.

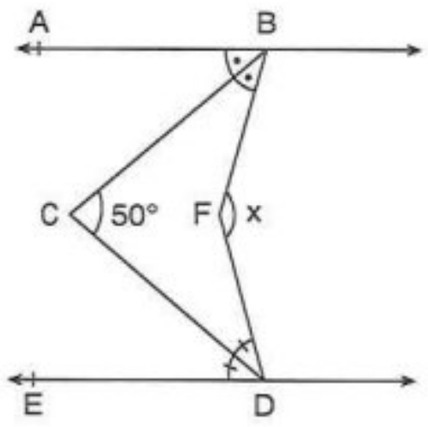


BA // DE
$m(\widehat{ABC}) = 30°$
$m(\widehat{BCD}) = 55°$
$m(\widehat{KDC}) = m(\widehat{CDE})$

⇒ $m(\widehat{BKD}) = ?$

A) 60° B) 70° C) 80° D) 90° E) 100°

2.

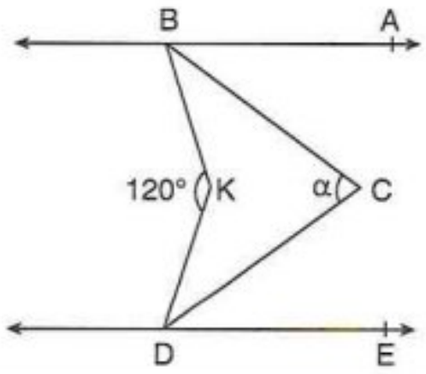


AB // ED
$m(\widehat{ABC}) = m(\widehat{CBF})$
$m(\widehat{EDC}) = m(\widehat{CDF})$
$m(\widehat{BCD}) = 50°$

⇒ $m(\widehat{BFD}) = x = ?$

A) 75° B) 90° C) 100° D) 125° E) 130°

3.

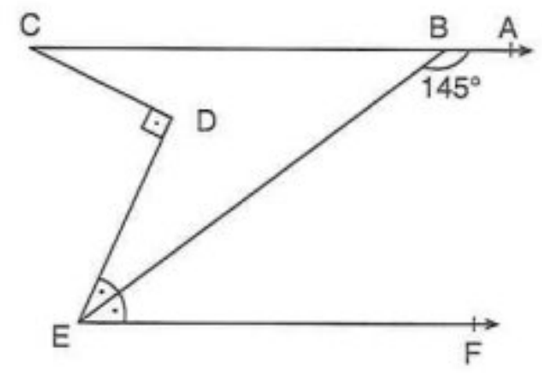


BA // DE
$m(\widehat{ABC}) = 2m(\widehat{KBC})$
$m(\widehat{CDE}) = 2m(\widehat{KDC})$
$m(\widehat{BKD}) = 120°$

⇒ $m(\widehat{BCD}) = ?$

A) 40° B) 60° C) 80° D) 100° E) 110°

4.

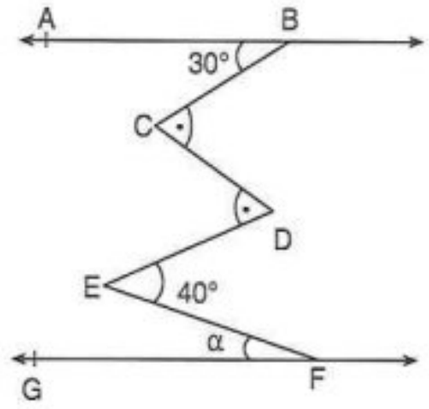


[CA // [EF
[CD] ⊥ [DE]
$m(\widehat{ABE}) = 145°$

⇒ $m(\widehat{ACD}) = ?$

A) 10° B) 20° C) 30° D) 40° E) 50°

5.

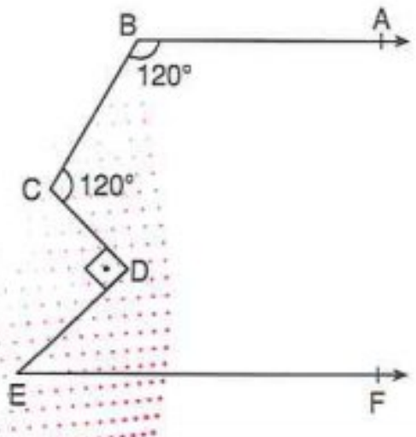


AB // FG
$m(\widehat{BCD}) = m(\widehat{CDE})$
$m(\widehat{ABC}) = 30°$
$m(\widehat{DEF}) = 40°$

⇒ $m(\widehat{EFG}) = \alpha = ?$

A) 5° B) 10° C) 15° D) 20° E) 25°

6.



[BA // [EF
$m(\widehat{ABC}) = m(\widehat{BCD})$
[CD ⊥ [DE]

⇒ $m(\widehat{DEF}) = ?$

A) 20° B) 30° C) 40° D) 50° E) 60°

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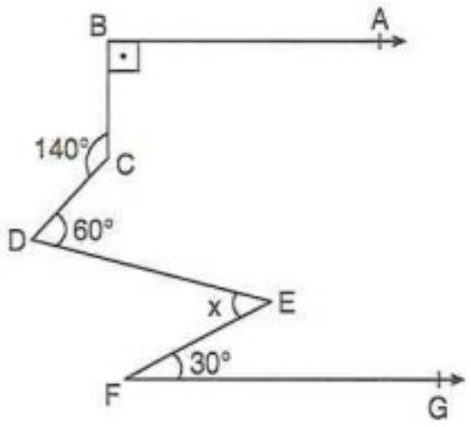
الممسوحة ضوئيا بـ CamScanner

7.

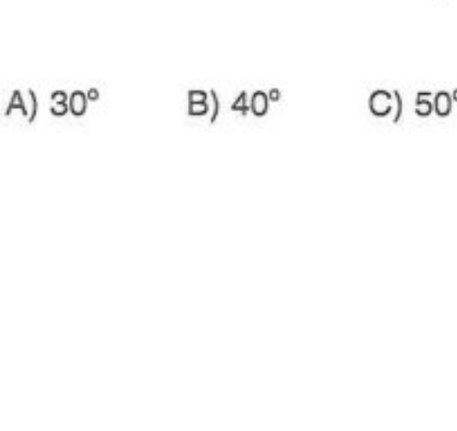


[BA // [FG
$m(\widehat{ABC}) = 90°$
$m(\widehat{BCD}) = 140°$
$m(\widehat{CDE}) = 60°$
$m(\widehat{EFG}) = 30°$

⇒ $m(\widehat{DEF}) = x = ?$

A) 30° B) 40° C) 50° D) 60° E) 70°

8.

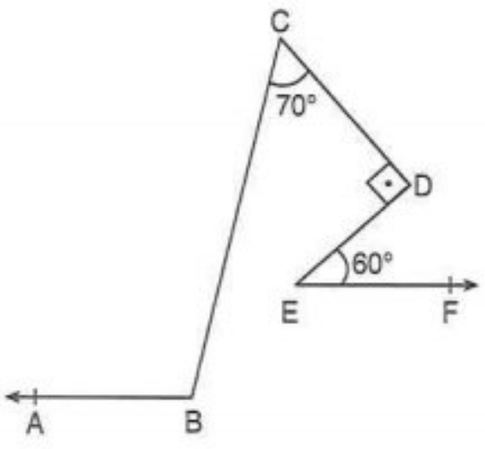


[BA // [FG
[CD] // [EF]
[BC] ⊥ [CD]
$m(\widehat{ABC}) = 40°$

⇒ $m(\widehat{EFG}) = x = ?$

A) 100° B) 110° C) 115° D) 120° E) 130°

9.

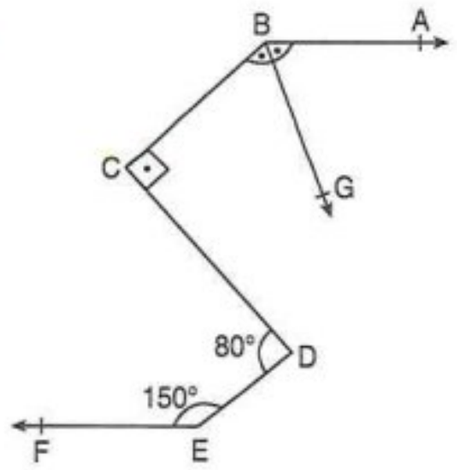


[BA // [EF
[CD] ⊥ [DE]
$m(\widehat{BCD}) = 70°$
$m(\widehat{DEF}) = 60°$

⇒ $m(\widehat{ABC}) = ?$

A) 90° B) 100° C) 105° D) 120° E) 140°

10.

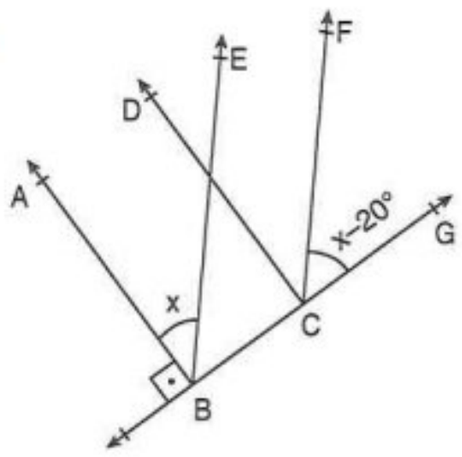


[BA // [EF
[BC] ⊥ [CD]
$m(\widehat{CDE}) = 80°$
$m(\widehat{DEF}) = 150°$

⇒ $m(\widehat{CBG}) = m(\widehat{GBA}) = ?$

A) 60° B) 65° C) 70° D) 75° E) 80°

11.

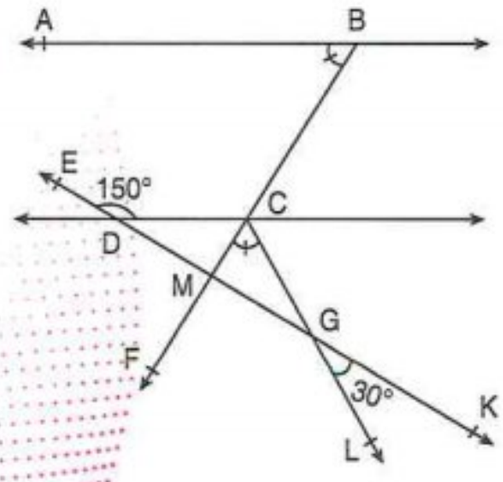


[BA // [CD
[BE // [CF
[BA ⊥ BG
$m(\widehat{ABE}) = x$
$m(\widehat{FCG}) = x - 20°$

⇒ $x = ?$

A) 35° B) 45° C) 55° D) 65° E) 75°

12.



AB // DC
$m(\widehat{ABF}) = m(\widehat{FCL})$
$m(\widehat{EDC}) = 150°$
$m(\widehat{LGK}) = 30°$

⇒ $m(\widehat{FMK}) = ?$

A) 80° B) 90° C) 100° D) 110° E) 120°

1. C	2. C	3. C	4. B	5. B	6. B
7. B	8. E	9. B	10. C	11. C	12. B

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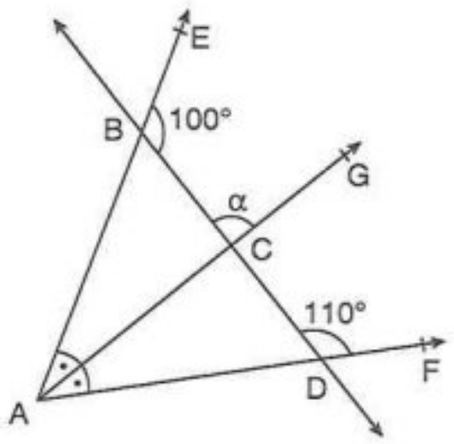
الممسوحة ضوئيا بـ CamScanner

1.

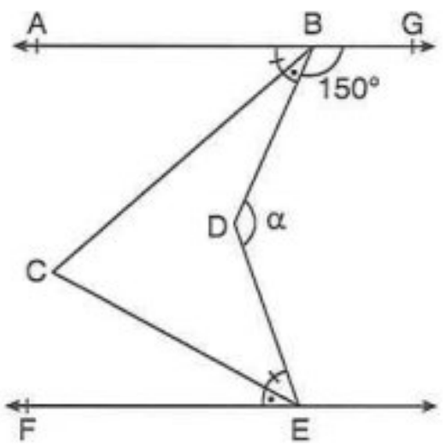


$m(\widehat{EAG}) = m(\widehat{GAF})$
$m(\widehat{EBD}) = 100°$
$m(\widehat{BDF}) = 110°$

$\Rightarrow m(\widehat{BCG}) = \alpha = ?$

A) 80° B) 90° C) 95° D) 100° E) 105°

2.

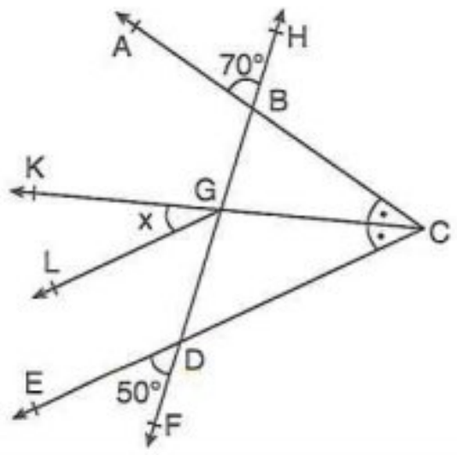


AG // [EF
$m(\widehat{ABC}) = m(\widehat{DEC})$
$m(\widehat{CBD}) = m(\widehat{CEF})$
$m(\widehat{DBG}) = 150°$

$\Rightarrow m(\widehat{BDE}) = \alpha = ?$

A) 30° B) 40° C) 60° D) 75° E) 80°

3.

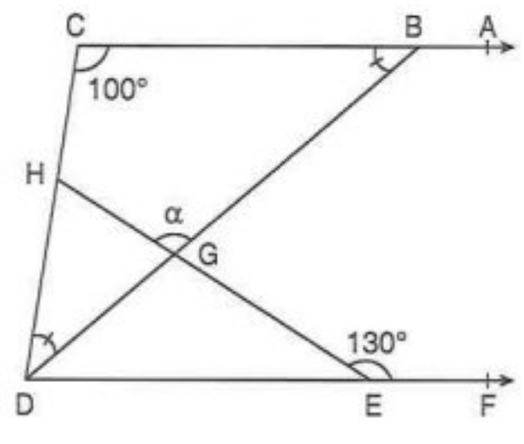


[GL // [CE
$m(\widehat{ACK}) = m(\widehat{KCE})$
$m(\widehat{ABH}) = 70°$
$m(\widehat{EDF}) = 50°$

$\Rightarrow m(\widehat{LGK}) = x = ?$

A) 10° B) 20° C) 30° D) 40° E) 50°

4.

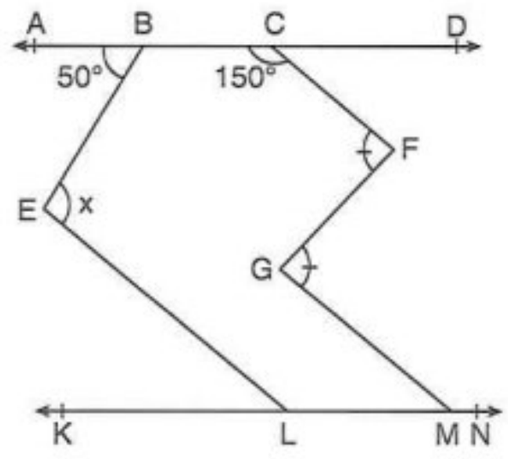


[CA // [DF
$m(\widehat{CBD}) = m(\widehat{CDB})$
$m(\widehat{ACD}) = 100°$
$m(\widehat{HEF}) = 130°$

$\Rightarrow m(\widehat{HGB}) = \alpha = ?$

A) 50° B) 60° C) 70° D) 80° E) 90°

5.

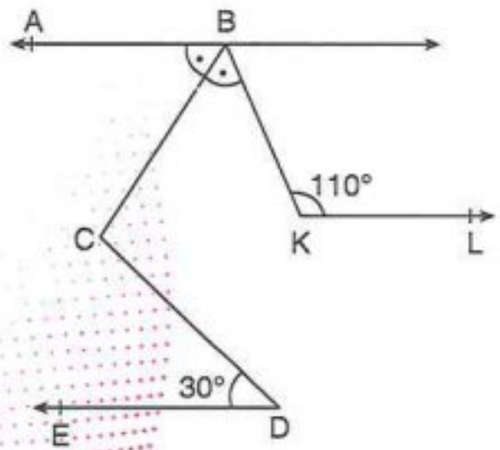


AD // KN
[EL] // [GM]
$m(\widehat{CFG}) = m(\widehat{FGM})$
$m(\widehat{ABE}) = 50°$
$m(\widehat{ACF}) = 150°$

$\Rightarrow m(\widehat{BEL}) = x = ?$

A) 70° B) 75° C) 80° D) 85° E) 90°

6.



[BA // [KL // [DE
$m(\widehat{ABC}) = m(\widehat{CBK})$
$m(\widehat{BKL}) = 110°$
$m(\widehat{EDC}) = 30°$

$\Rightarrow m(\widehat{BCD}) = ?$

A) 50° B) 65° C) 85° D) 90° E) 100°

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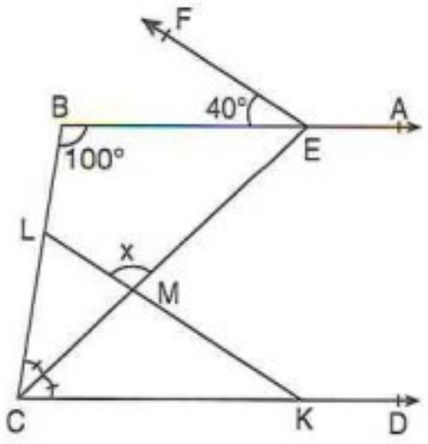
7.

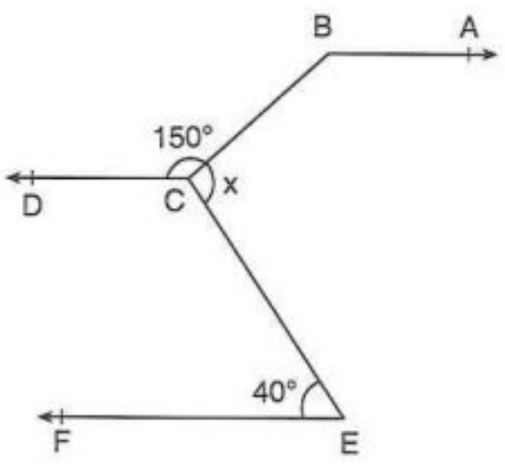


[BA // [CD
[EF // [KL]
[CE] açıortay (*bisector*)
$m(\widehat{ABC}) = 100°$
$m(\widehat{FEB}) = 40°$

⇒ $\mathbf{m(\widehat{LME}) = x = ?}$

A) 70° B) 80° C) 90° D) 100° E) 110°

8.

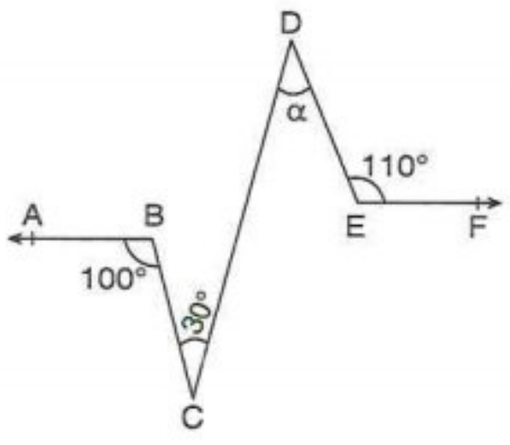


[BA // [CD // [EF
$m(\widehat{BCD}) = 150°$
$m(\widehat{FEC}) = 40°$

⇒ $\mathbf{m(\widehat{ECB}) = x = ?}$

A) 30° B) 50° C) 70° D) 90° E) 100°

9.

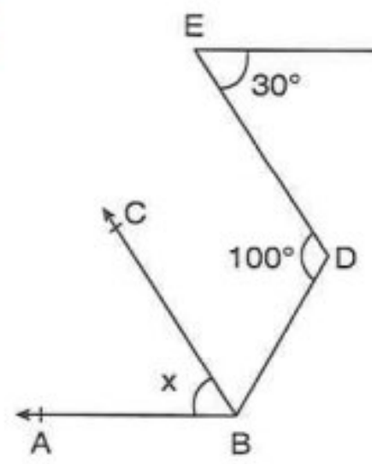


[BA // [EF
$m(\widehat{ABC}) = 100°$
$m(\widehat{BCD}) = 30°$
$m(\widehat{DEF}) = 110°$

⇒ $\mathbf{m(\widehat{CDE}) = \alpha = ?}$

A) 40° B) 50° C)60° D) 70° E) 80°

10.

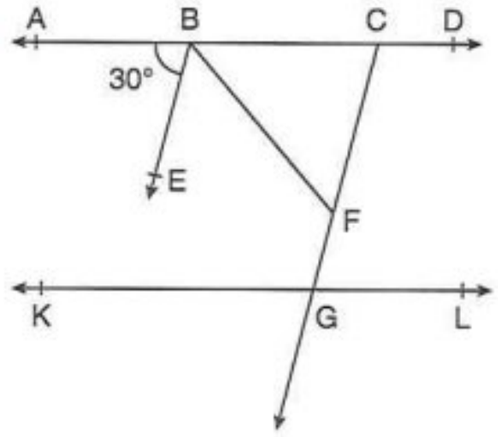


[BA // [EF
[BC // [DE]
$m(\widehat{FED}) = 30°$
$m(\widehat{EDB}) = 100°$

⇒ $\mathbf{m(\widehat{ABC}) = x = ?}$

A) 30° B) 50° C) 65° D) 70° E) 80°

11.

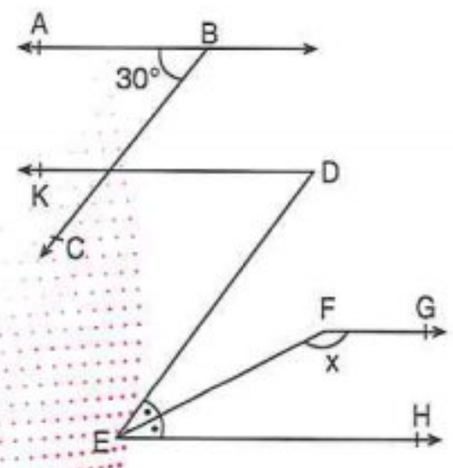


AD // KL
[BE // [CG
$m(\widehat{ABE}) = 30°$

⇒ $\mathbf{m(\widehat{CGL}) = ?}$

A) 15° B) 30° C) 45° D) 50° E) 60°

12.



[BA // [DK // [FG // [EH
[BC // [DE]
$m(\widehat{DEF}) = m(\widehat{FEH})$
$m(\widehat{ABC}) = 30°$

⇒ $\mathbf{m(\widehat{EFG}) = x = ?}$

A) 120° B) 125° C) 135° D) 145° E) 165°

1. C	2. C	3. C	4. E	5. C	6. C
7. D	8. C	9. A	10. A	11. B	12. E

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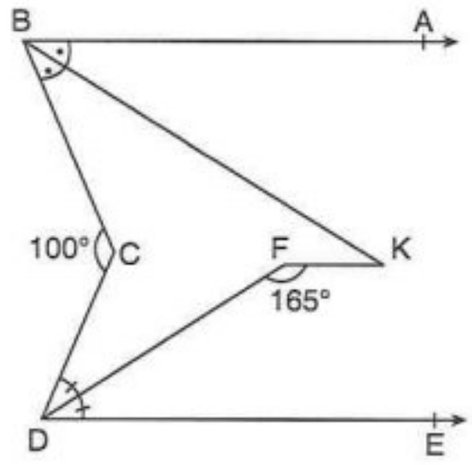
1.

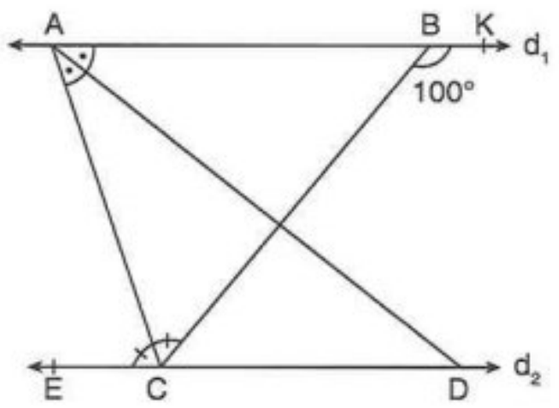


$[BA] \parallel [FK] \parallel [DE$
$m(\widehat{ABK}) = m(\widehat{KBC})$
$m(\widehat{CDF}) = m(\widehat{FDE})$
$m(\widehat{BCD}) = 110°$
$m(\widehat{KFD}) = 165°$

$\Rightarrow$ **$m(\widehat{BKF}) = ?$**

A) 25° B) 30° C) 35° D) 40° E) 45°

2.

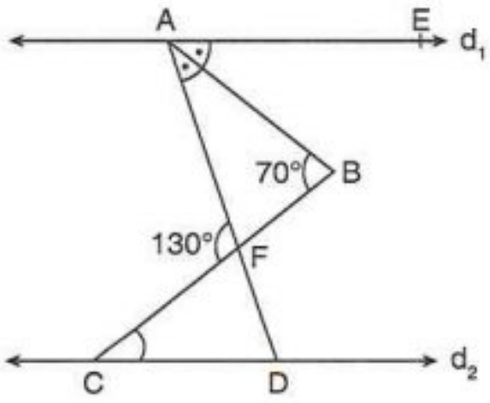


$d_1 \parallel d_2$
$m(\widehat{BAD}) = m(\widehat{DAC})$
$m(\widehat{ECA}) = m(\widehat{ACB})$
$m(\widehat{KBC}) = 100°$

$\Rightarrow$ **$m(\widehat{ADE}) = ?$**

A) 35° B) 30° C) 25° D) 20° E) 15°

3.

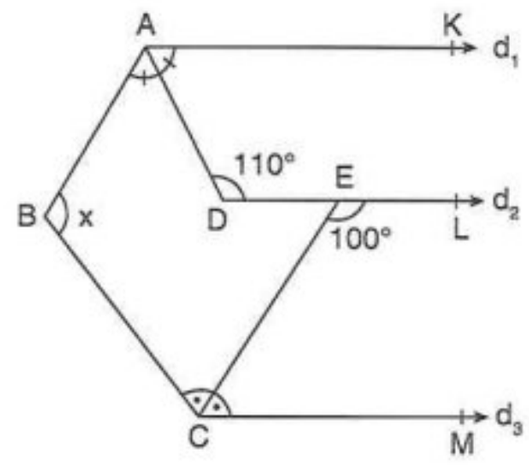


$d_1 \parallel d_2$
$m(\widehat{EAB}) = m(\widehat{BAD})$
$m(\widehat{ABC}) = 70°$
$m(\widehat{AFC}) = 130°$

$\Rightarrow$ **$m(\widehat{BCD}) = x = ?$**

A) 10° B) 15° C) 20° D) 25° E) 30°

4.

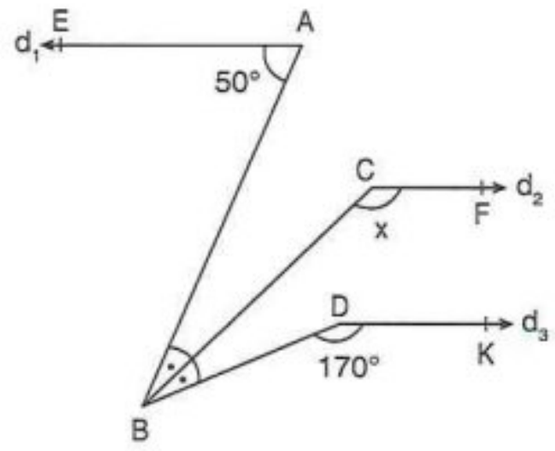


$d_1 \parallel d_2 \parallel d_3$
$m(\widehat{KAD}) = m(\widehat{DAB})$
$m(\widehat{BCE}) = m(\widehat{ECM})$
$m(\widehat{ADL}) = 110°$
$m(\widehat{CEL}) = 100°$

$\Rightarrow$ **$m(\widehat{ABC}) = x = ?$**

A) 50° B) 60° C) 70° D) 80° E) 90°

5.

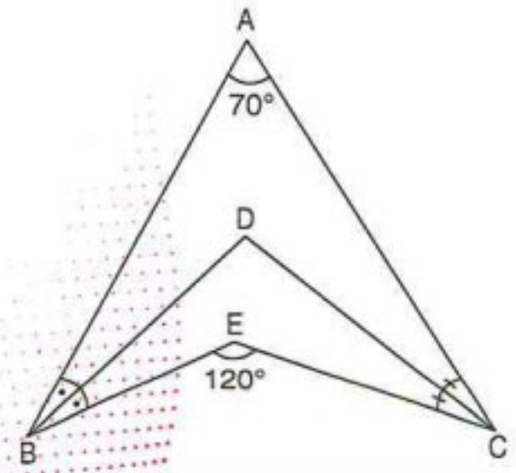


$d_1 \parallel d_2 \parallel d_3$
$m(\widehat{ABC}) = m(\widehat{CBD})$
$m(\widehat{EAB}) = 50°$
$m(\widehat{BDK}) = 170°$

$\Rightarrow$ **$m(\widehat{BCF}) = x = ?$**

A) 120° B) 130° C) 140° D) 150° E) 160°

6.



$m(\widehat{ABD}) = m(\widehat{DBE})$
$m(\widehat{ACD}) = m(\widehat{DCE})$
$m(\widehat{BAC}) = 70°$
$m(\widehat{BEC}) = 120°$

$\Rightarrow$ **$m(\widehat{BDC}) = ?$**

A) 75° B) 80° C) 85° D) 90° E) 95°

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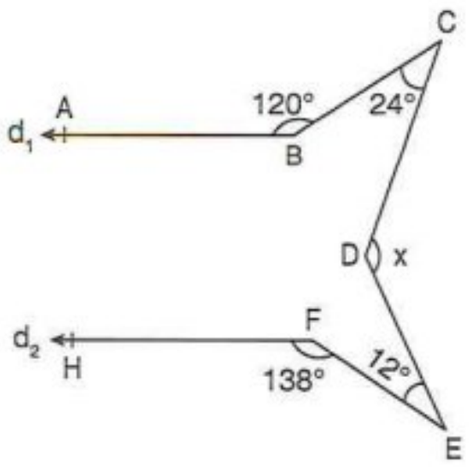
7.



$d_1 \parallel d_2$

$m(\widehat{ABC}) = 120°$

$m(\widehat{BCD}) = 24°$

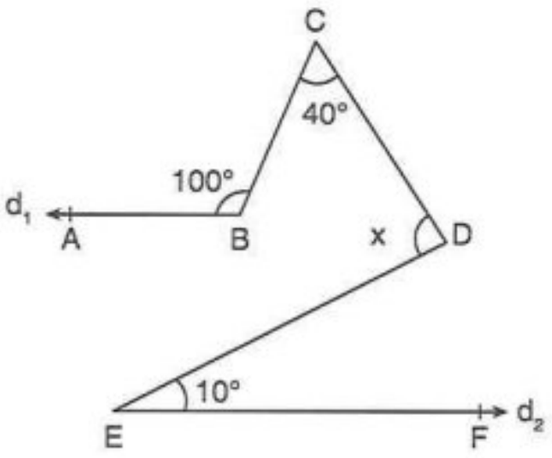
$m(\widehat{DEF}) = 12°$

$m(\widehat{EFH}) = 138°$

$\Rightarrow m(\widehat{CDE}) = x = ?$

A) 146° B) 144° C) 141° D) 140° E) 138°

8.



$d_1 \parallel d_2$

$m(\widehat{ABC}) = 100°$

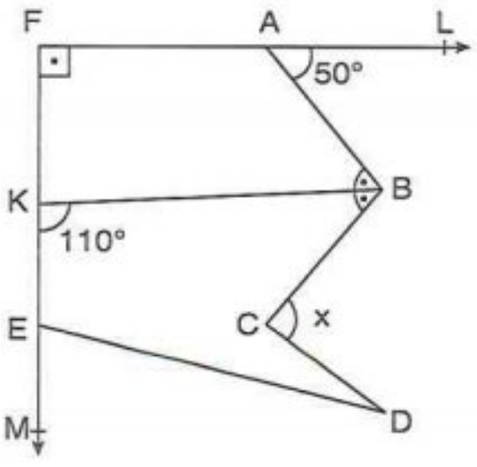
$m(\widehat{BCD}) = 40°$

$m(\widehat{DEF}) = 10°$

$\Rightarrow m(\widehat{CDE}) = x = ?$

A) 60° B) 70° C) 80° D) 90° E) 100°

9.



$m(\widehat{ABK}) = m(\widehat{KBC})$

$[FL \perp [FM$

$m(\widehat{BAL}) = 50°$

$m(\widehat{BKM}) = 110°$

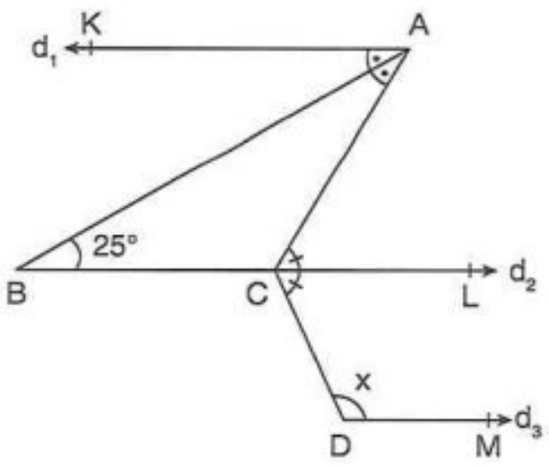
$m(\widehat{MED}) = 70°$

$m(\widehat{CDE}) = 20°$

$\Rightarrow m(\widehat{BCD}) = ?$

A) 110° B) 120° C) 130° D) 140° E) 150°

10.



$d_1 \parallel d_2 \parallel d_3$

$m(\widehat{KAB}) = m(\widehat{BAC})$

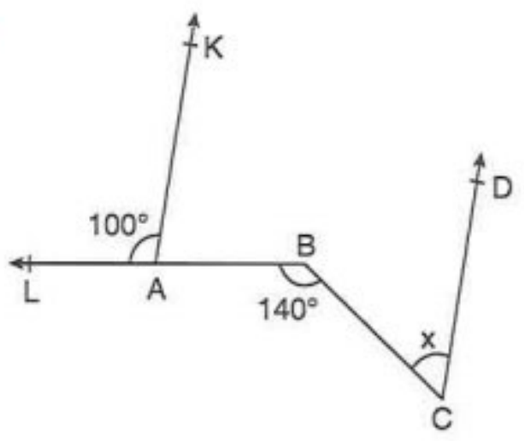
$m(\widehat{ACL}) = m(\widehat{LCD})$

$m(\widehat{ABC}) = 25°$

$\Rightarrow m(\widehat{CDM}) = x = ?$

A) 130° B) 135° C) 140° D) 150° E) 155°

11.



$[AK \parallel [CD$

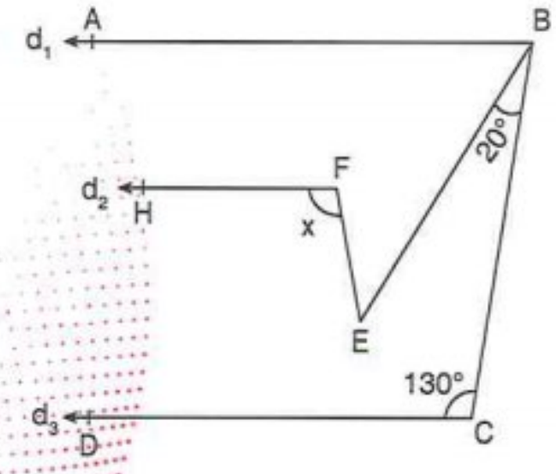
$m(\widehat{LAK}) = 100°$

$m(\widehat{LBC}) = 140°$

$\Rightarrow m(\widehat{BCD}) = x = ?$

A) 40° B) 50° C) 60° D) 70° E) 80°

12.



$d_1 \parallel d_2 \parallel d_3$

$m(\widehat{FEB}) = 40°$

$m(\widehat{EBC}) = 20°$

$m(\widehat{BCD}) = 130°$

$\Rightarrow m(\widehat{HFE}) = x = ?$

A) 70° B) 80° C) 90° D) 100° E) 110°

1. C	2. C	3. A	4. B	5. D	6. E
7. E	8. B	9. C	10. A	11. C	12. A

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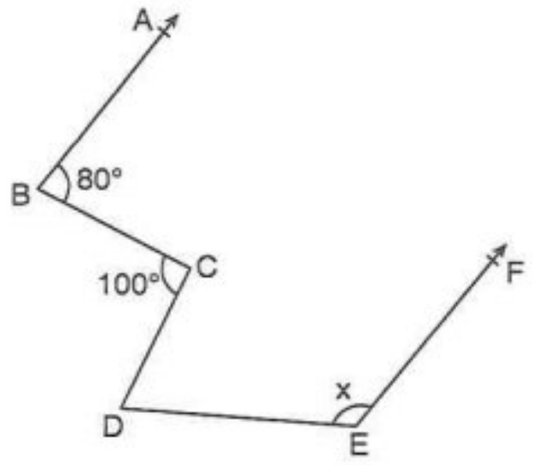
1.

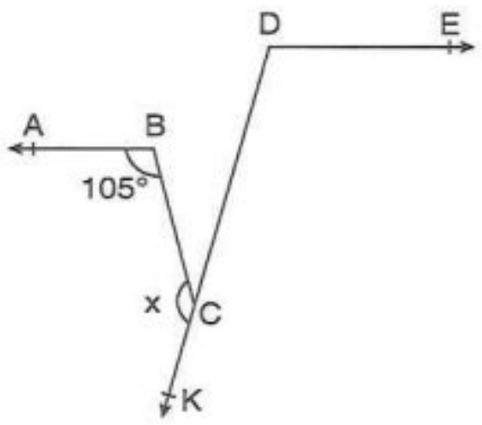


$[BA \parallel [EF$
$m(\widehat{ABC}) = 80°$
$m(\widehat{BCD}) = 100°$
$m(\widehat{CDE}) = 50°$
$m(\widehat{DEF}) = x$

$\Rightarrow m(\widehat{DEF}) = x = ?$

A) 160° B) 150° C) 140° D) 130° E) 120°

2.

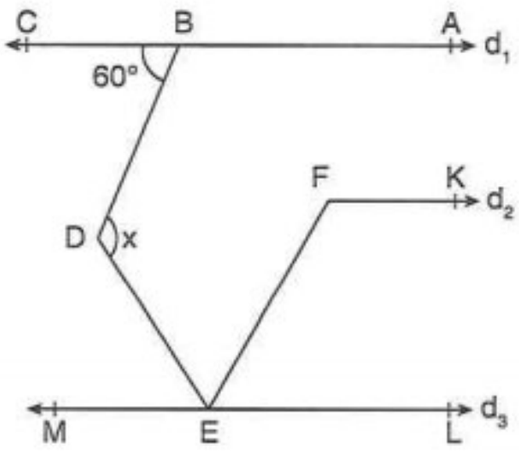


$[BA \parallel [DE$
$m(\widehat{ABC}) = 105°$
$m(\widehat{KDE}) = 120°$

$\Rightarrow m(\widehat{BCK}) = x = ?$

A) 120° B) 125° C) 130° D) 135° E) 140°

3.

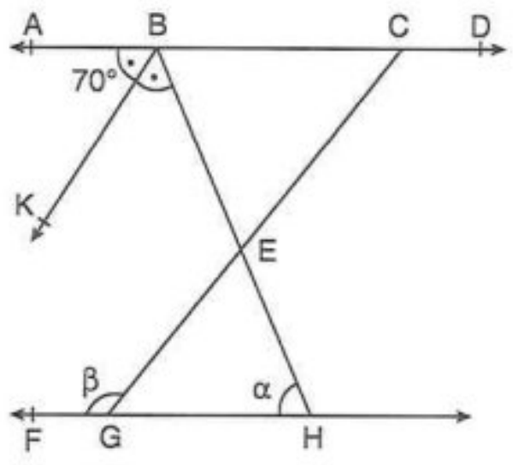


$d_1 \parallel d_2 \parallel d_3$
$m(\widehat{DEF}) = m(\widehat{FEL})$
$m(\widehat{CBD}) = 60°$
$m(\widehat{EFK}) = 110°$

$\Rightarrow m(\widehat{BDE}) = ?$

A) 95° B) 100° C) 110° D) 115° E) 120°

4.

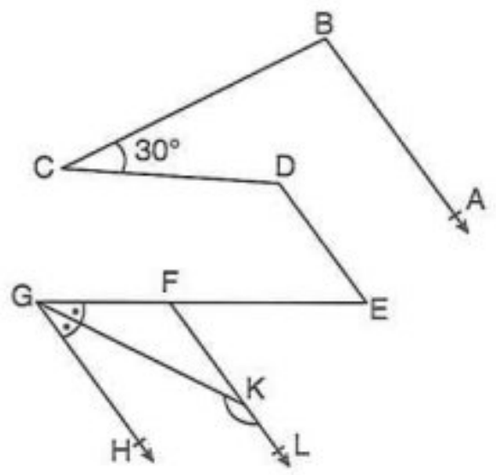


$AD \parallel FH$
$[GC] \perp [BH]$
$m(\widehat{ABK}) = m(\widehat{KBH}) = 70°$
$m(\widehat{BHF}) = \alpha$
$m(\widehat{FGC}) = \beta$

$\Rightarrow \alpha + \beta = ?$

A) 150° B) 155° C) 160° D) 165° E) 170°

5.

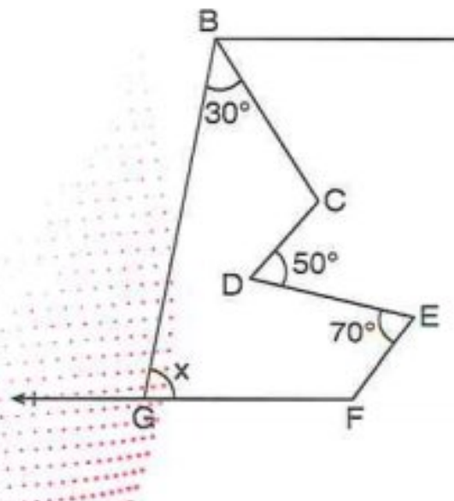


$[BA \parallel [DE] \parallel [FL \parallel [GH$
$m(\widehat{EGK}) = m(\widehat{HGK})$
$m(\widehat{BCD}) = 30°$
$m(\widehat{GKF}) = 20°$

$\Rightarrow m(\widehat{ABC}) = ?$

A) 100° B) 110° C) 115° D) 120° E) 135°

6.



$[BA \parallel [FG$
$m(\widehat{GBC}) = 30°$
$m(\widehat{BCD}) = 80°$
$m(\widehat{CDE}) = 50°$
$m(\widehat{DEF}) = 70°$
$m(\widehat{EFG}) = 150°$

$\Rightarrow m(\widehat{BGF}) = x = ?$

A) 45° B) 60° C) 65° D) 70° E) 80°

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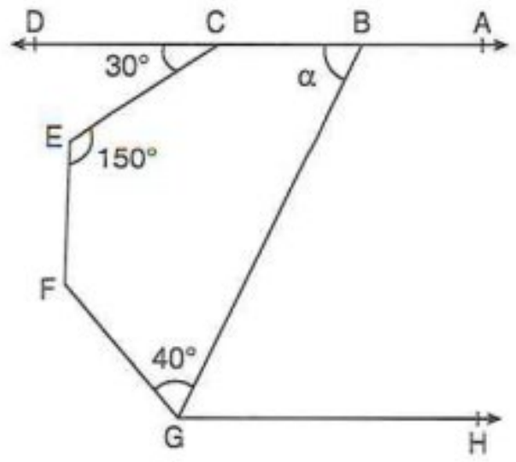
7.

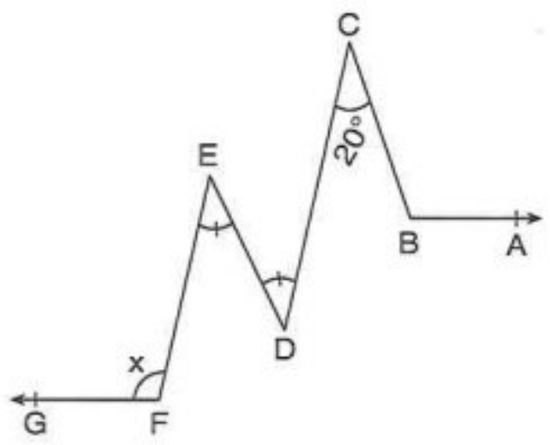


AD // [GH
$m(\widehat{DCE}) = 30°$
$m(\widehat{CEF}) = 150°$
$m(\widehat{EFG}) = 140°$
$m(\widehat{FGB}) = 40°$

⇒ $m(\widehat{DBG}) = \alpha = ?$

A) 40° B) 45° C) 60° D) 70° E) 75°

8.

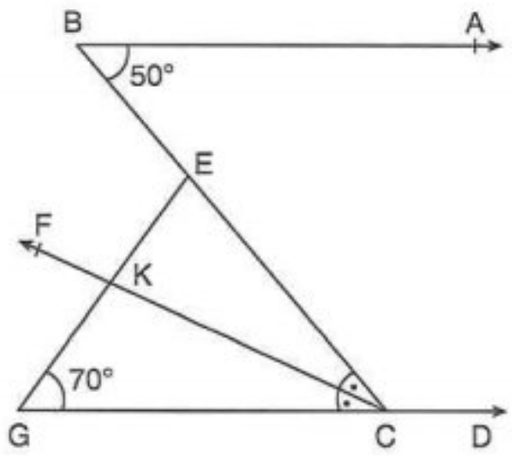


[BA // [FG
$m(\widehat{FED}) = m(\widehat{EDC})$
$m(\widehat{CBA}) = 110°$
$m(\widehat{DCB}) = 20°$

⇒ $m(\widehat{GFE}) = x = ?$

A) 70° B) 90° C) 110° D) 130° E) 150°

9.

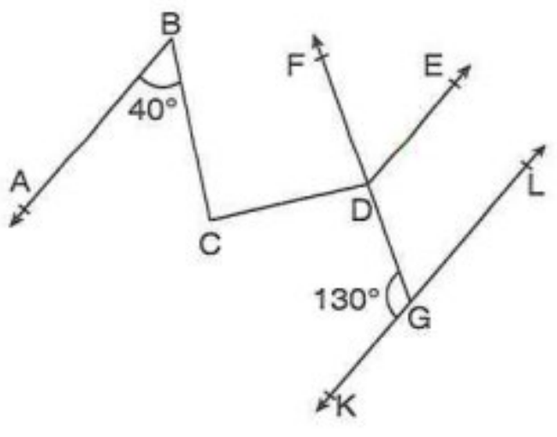


[BA // [GD
$m(\widehat{BCF}) = m(\widehat{FCG})$
$m(\widehat{ABC}) = 50°$
$m(\widehat{EGD}) = 70°$

⇒ $m(\widehat{FKE}) = ?$

A) 60° B) 75° C) 80° D) 85° E) 90°

10.

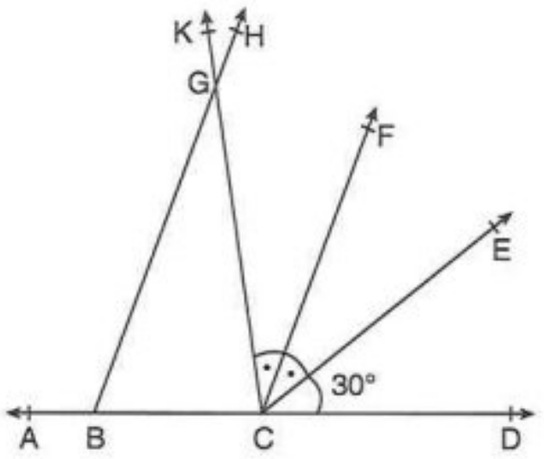


[BA // [DE // KL
$m(\widehat{ABC}) = 40°$
$m(\widehat{BCD}) = 100°$
$m(\widehat{KGF}) = 130°$

⇒ $m(\widehat{CDF}) = ?$

A) 50° B) 60° C) 70° D) 80° E) 90°

11.

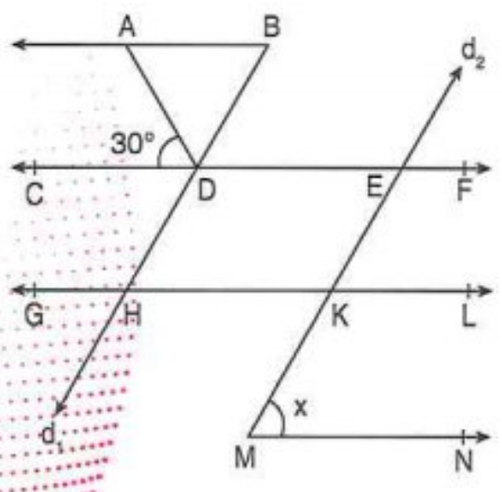


[BH // [CF
$m(\widehat{KCF}) = m(\widehat{FCE})$
$m(\widehat{ECD}) = 30°$
$m(\widehat{ABH}) = 100°$

⇒ $m(\widehat{KGH}) = ?$

A) 40° B) 50° C) 60° D) 70° E) 80°

12.



d_1 // d_2
[BA // CF // GL // [MN
|AB| = |AD|
$m(\widehat{ADC}) = 30°$

⇒ $m(\widehat{EMN}) = x = ?$

A) 60° B) 75° C) 80° D) 85° E) 90°

1. B	2. D	3. B	4. E	5. B	6. E
7. C	8. B	9. D	10. C	11. B	12. B

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ÜÇGENDE AÇI

ANGLES OF TRIANGLE

KONU KAVRAMA TESTİ
Thread Grip Test

ZİHİN HARİTASI
Mind Map

8
TEST
Tests

156
SORU
Questions

YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS

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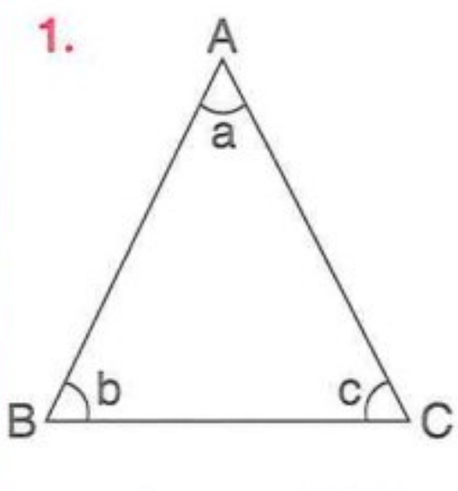
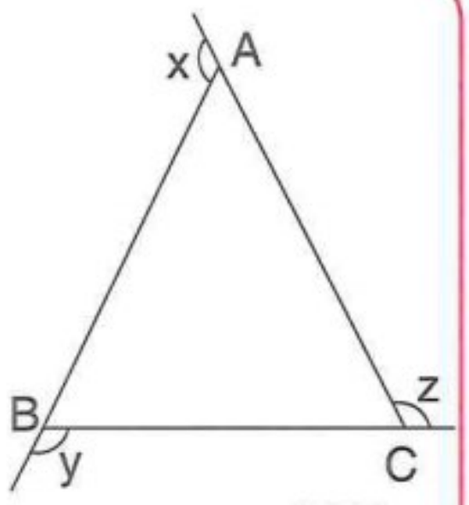
ÜÇGENDE AÇI
ANGLES OF TRIANGLE

CANER eğitim kurumları

1.

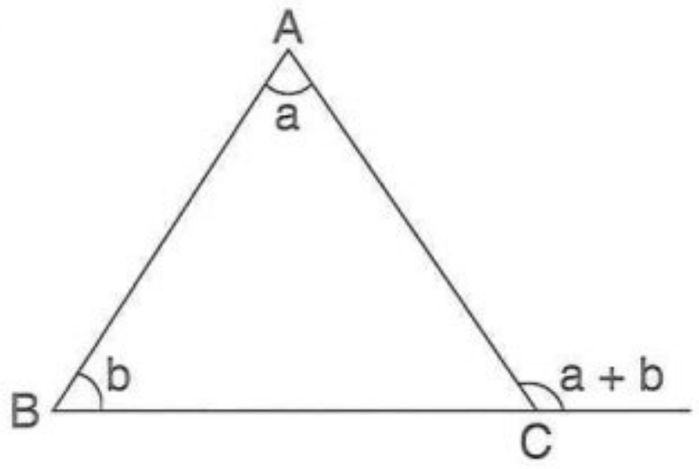


$a + b + c = 180°$

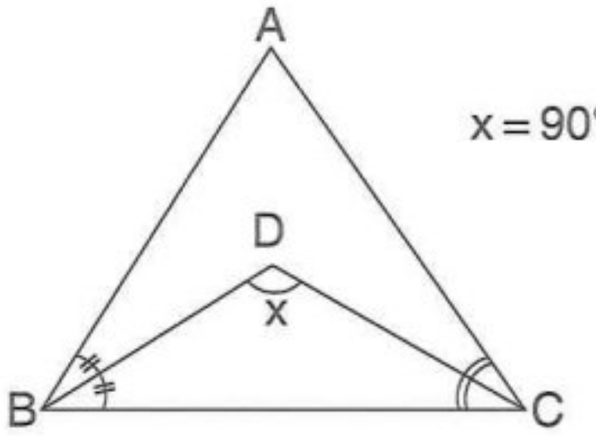


$x + y + z = 360°$

2.

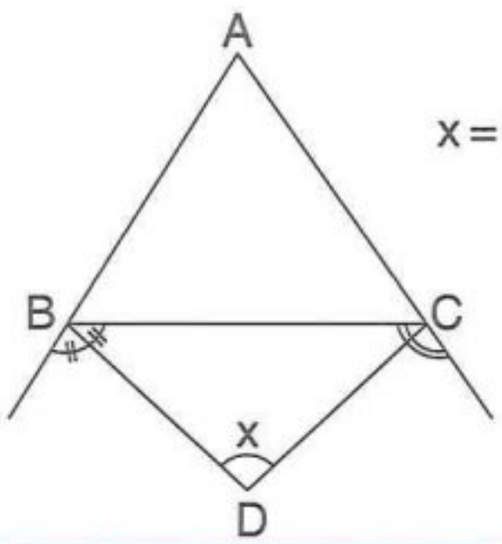


3.



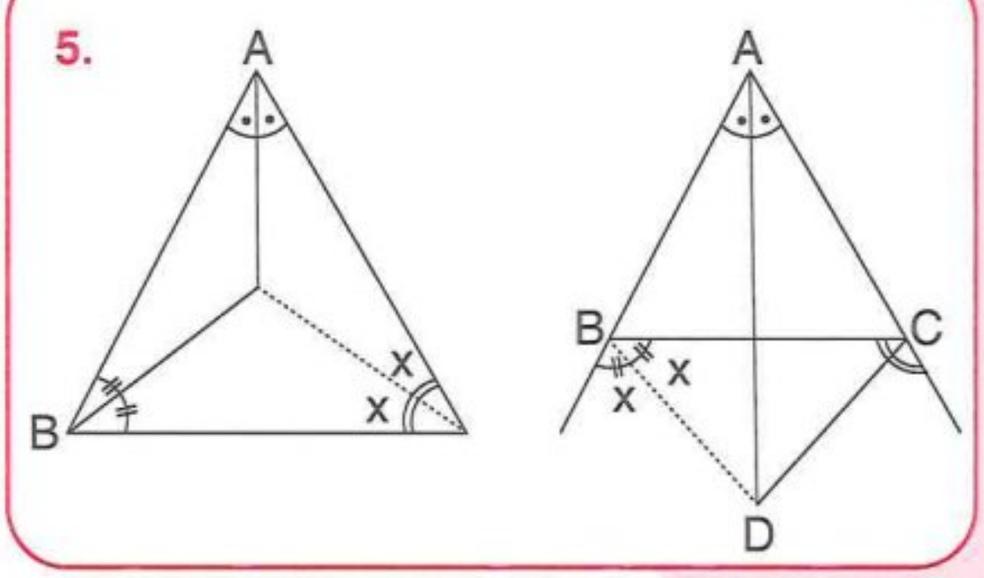
$x = 90° + \frac{m(\widehat{A})}{2}$

4.

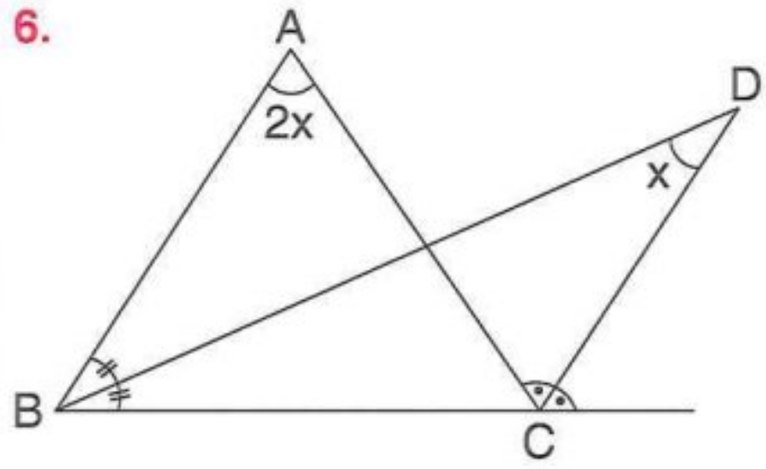


$x = 90° - \frac{m(\widehat{A})}{2}$

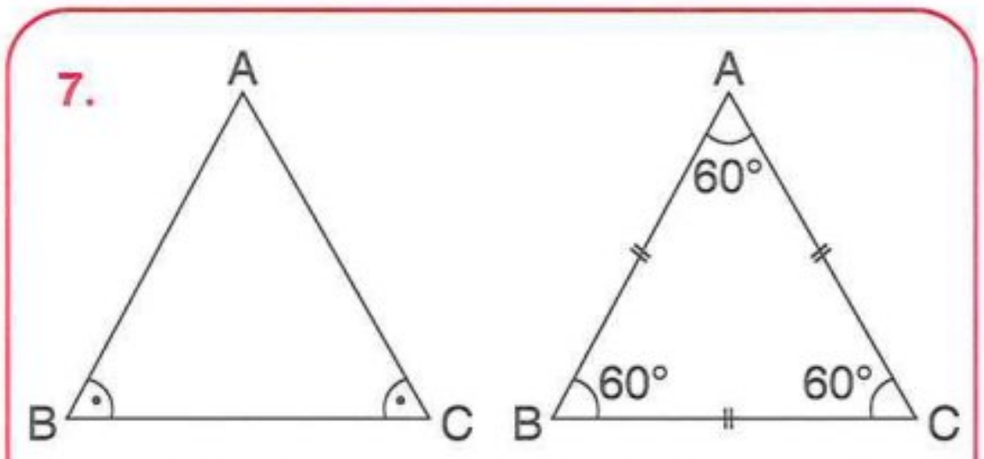
5.



6.



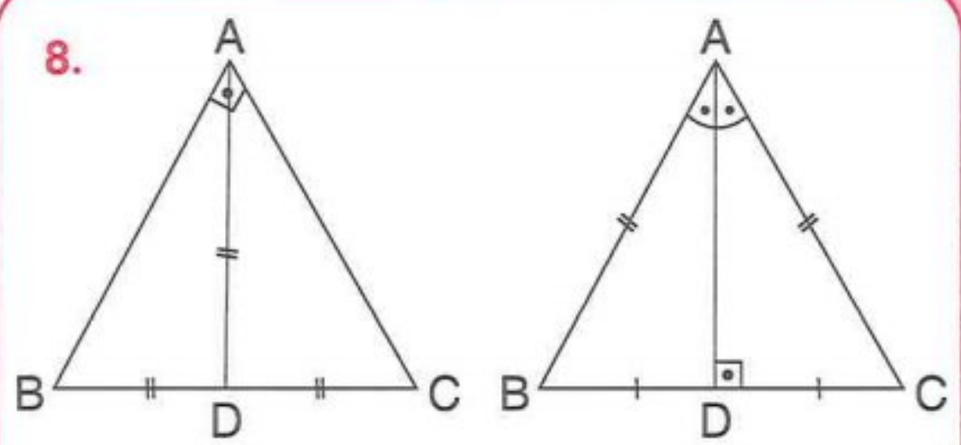
7.



$|AB| = |AC|$
$m(\widehat{B}) = m(\widehat{C})$

$|AB| = |AC| = |BC|$
$m(\widehat{A}) = m(\widehat{B}) = m(\widehat{C})$

8.



$m(\widehat{A}) = 90°$

$|AD| = |BD| = |DC|$

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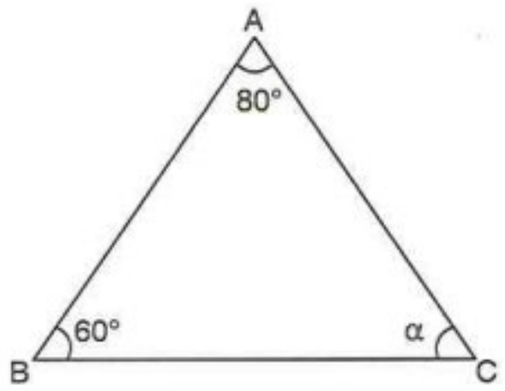
1.

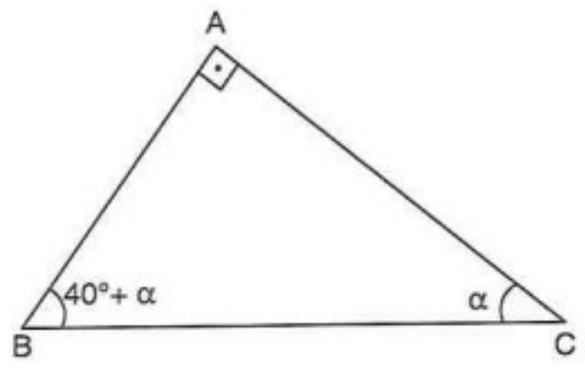


$m(\widehat{BAC}) = 80°$
$m(\widehat{ABC}) = 60°$

$\Rightarrow$ **$m(\widehat{ACB}) = \alpha = ?$**

A) 30° B) 40° C) 50° D) 60° E) 70°

2.

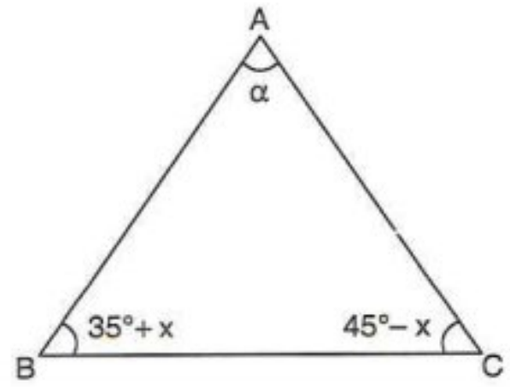


$[BA] \perp [AC]$
$m(\widehat{CBA}) = 40 + \alpha$

$\Rightarrow$ **$m(\widehat{ACB}) = \alpha = ?$**

A) 20° B) 25° C) 30° D) 35° E) 45°

3.

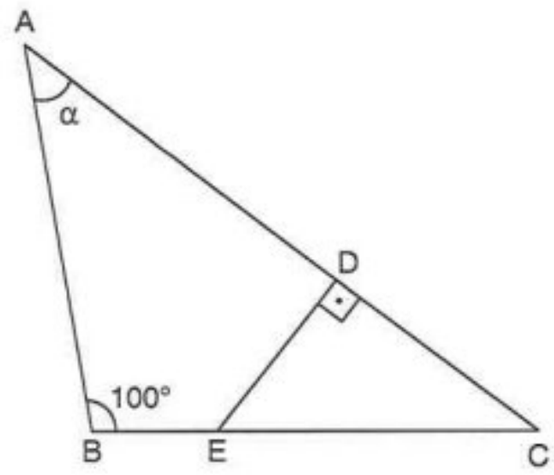


$m(\widehat{ABC}) = 35° + x$
$m(\widehat{ACB}) = 45° - x$

$\Rightarrow$ **$m(\widehat{BAC}) = \alpha = ?$**

A) 80° B) 90° C) 100° D) 110° E) 115°

4.

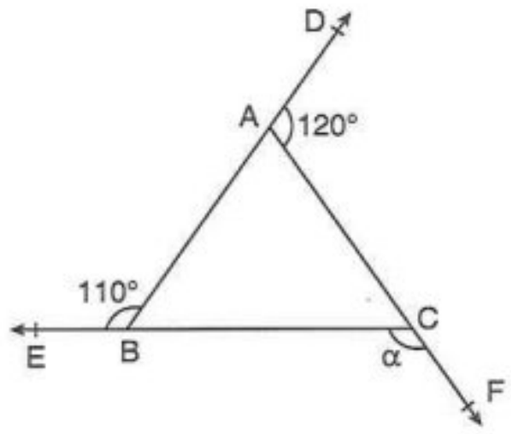


$[ED] \perp [AC]$
$m(\widehat{ABC}) = 100°$
$m(\widehat{DEC}) = 70°$

$\Rightarrow$ **$m(\widehat{BAC}) = \alpha = ?$**

A) 30° B) 40° C) 50° D) 60° E) 75°

5.

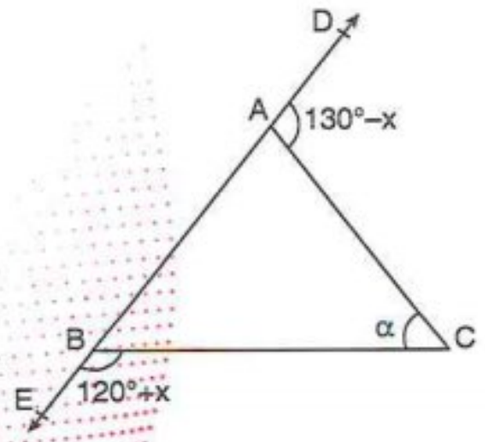


$m(\widehat{DAC}) = 120°$
$m(\widehat{EBA}) = 110°$

$\Rightarrow$ **$m(\widehat{BCF}) = \alpha = ?$**

A) 130° B) 140° C) 150° D) 160° E) 170°

6.



$m(\widehat{DAC}) = 130° - x$
$m(\widehat{EBC}) = 120° + x$

$\Rightarrow$ **$m(\widehat{ACB}) = \alpha = ?$**

A) 50° B) 60° C) 70° D) 80° E) 90°

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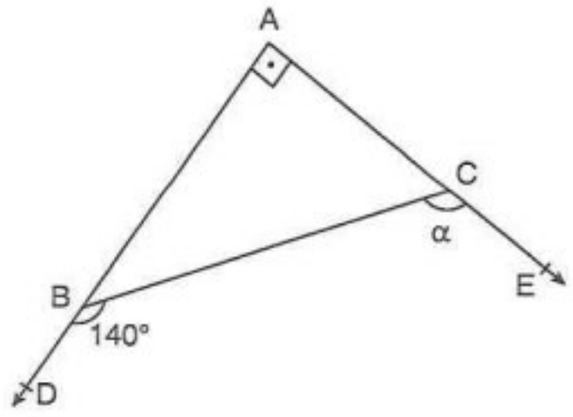
7.

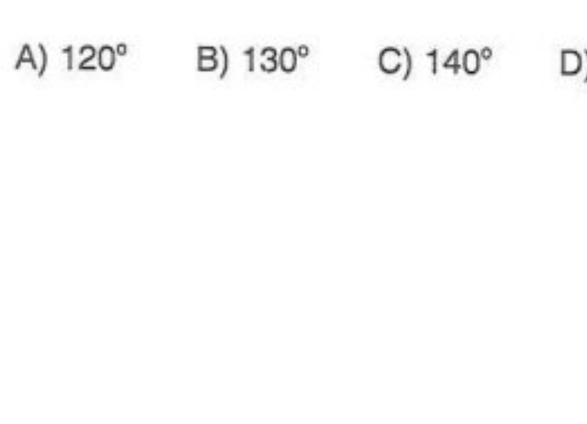


$[AD \perp [AE$
$m(\widehat{DBC}) = 140°$

$\Rightarrow m(\widehat{BCE}) = \alpha = ?$

A) 120° B) 130° C) 140° D) 150° E) 160°

8.

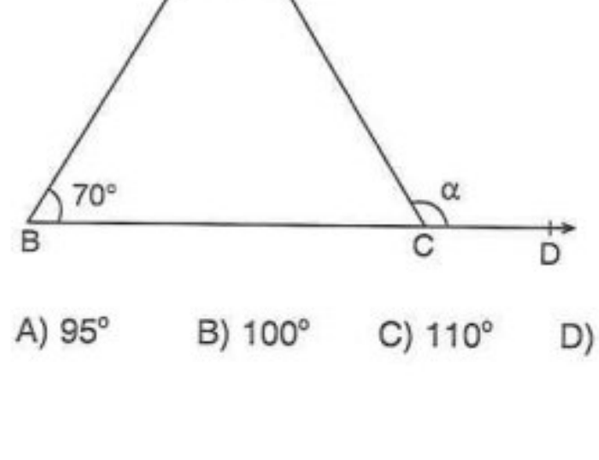


$m(\widehat{BAC}) = 50°$
$m(\widehat{ABC}) = 70°$

$\Rightarrow m(\widehat{ACD}) = \alpha = ?$

A) 95° B) 100° C) 110° D) 120° E) 140°

9.

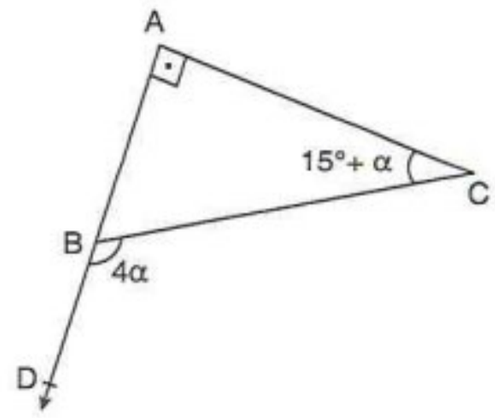


$m(\widehat{CAB}) = 65° + x$
$m(\widehat{ABC}) = 75° - x$

$\Rightarrow m(\widehat{DCA}) = \alpha = ?$

A) 100° B) 110° C) 120° D) 130° E) 140°

10.

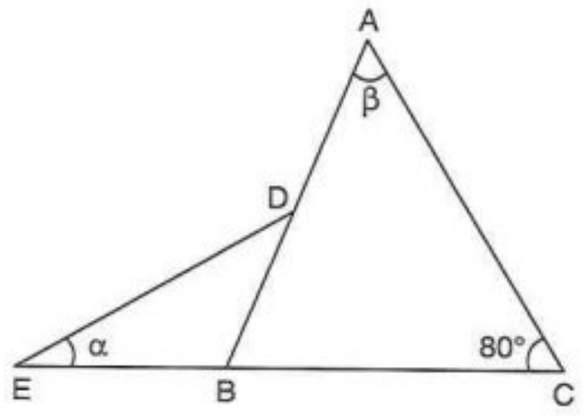


$[AD \perp [AC]$
$m(\widehat{ACB}) = 15° + \alpha$

$\Rightarrow 3\alpha = ?$

A) 95° B) 105° C) 115° D) 125° E) 135°

11.



$m(\widehat{ACB}) = 80°$
$m(\widehat{BDE}) = 20°$
$m(\widehat{BAC}) = \beta$
$m(\widehat{DEB}) = \alpha$

$\Rightarrow \alpha + \beta = ?$

A) 60° B) 70° C) 80° D) 90° E) 100°

12.

$m(\widehat{CAB}) = 85°$
$m(\widehat{ABC}) = 55°$
$m(\widehat{DEC}) = 10°$

$\Rightarrow m(\widehat{EDC}) = \alpha = ?$

A) 20° B) 30° C) 40° D) 50° E) 60°

1. B	2. B	3. C	4. D	5. A	6. C
7. B	8. D	9. E	10. B	11. C	12. B

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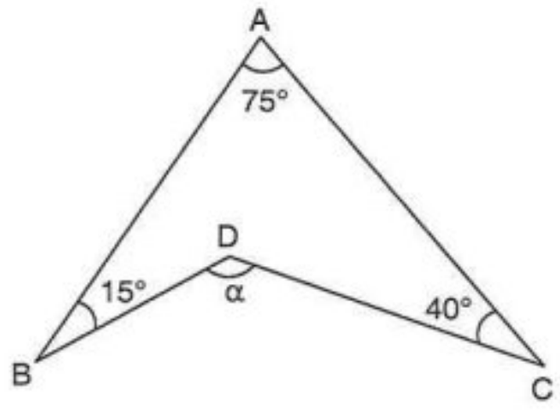
13.

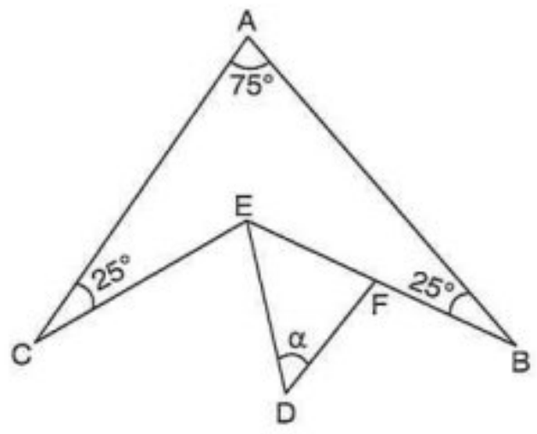


$m(\widehat{BAC}) = 75°$
$m(\widehat{ABD}) = 15°$
$m(\widehat{ACD}) = 40°$

$\Rightarrow m(\widehat{BDC}) = \alpha = ?$

A) 110° B) 120° C) 130° D) 140° E) 150°

14.

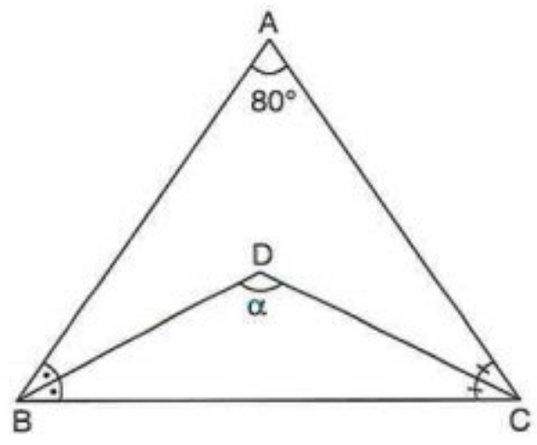


$m(\widehat{CAB}) = 75°$
$m(\widehat{ACE}) = 25°$
$m(\widehat{ABF}) = 25°$
$m(\widehat{CED}) = 55°$
$m(\widehat{EFD}) = 80°$

$\Rightarrow m(\widehat{EDF}) = \alpha = ?$

A) 25° B) 30° C) 35° D) 45° E) 50°

15.

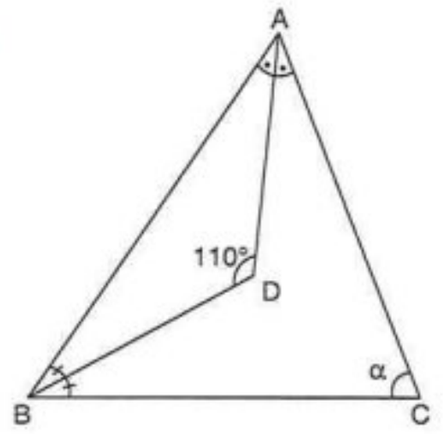


$m(\widehat{ABD}) = m(\widehat{DBC})$
$m(\widehat{ACD}) = m(\widehat{DCB})$
$m(\widehat{BAC}) = 80°$

$\Rightarrow m(\widehat{BDC}) = \alpha = ?$

A) 90° B) 105° C) 120° D) 130° E) 150°

16.

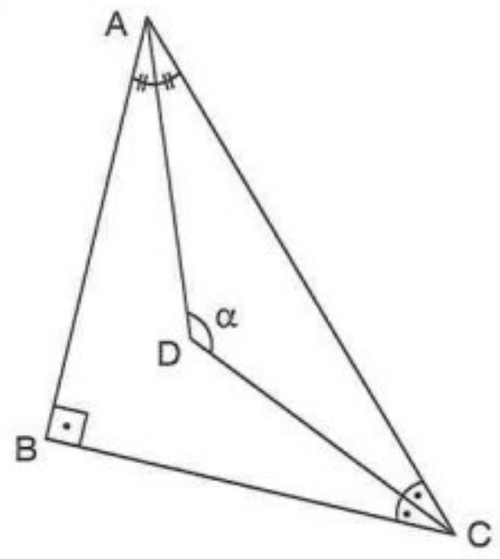


$m(\widehat{CAD}) = m(\widehat{DAB})$
$m(\widehat{CBD}) = m(\widehat{DBA})$
$m(\widehat{ADB}) = 110°$

$\Rightarrow m(\widehat{ACB}) = \alpha = ?$

A) 20° B) 30° C) 40° D) 60° E) 80°

17.

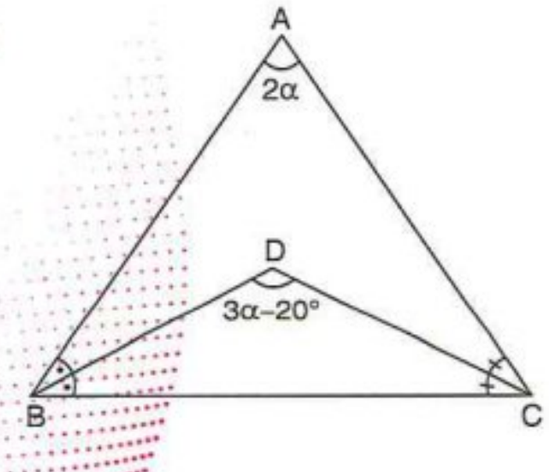


$[AB] \perp [BC]$
$m(\widehat{BAD}) = m(\widehat{DAC})$
$m(\widehat{ACD}) = m(\widehat{DCB})$

$\Rightarrow m(\widehat{ADC}) = \alpha = ?$

A) 95° B) 110° C) 115° D) 125° E) 135°

18.



$m(\widehat{ABD}) = m(\widehat{DBC})$
$m(\widehat{ACD}) = m(\widehat{DCB})$
$m(\widehat{BAC}) = 2\alpha$
$m(\widehat{BDC}) = 3\alpha - 20°$

$\Rightarrow \alpha = ?$

A) 40° B) 55° C) 60° D) 75° E) 80°

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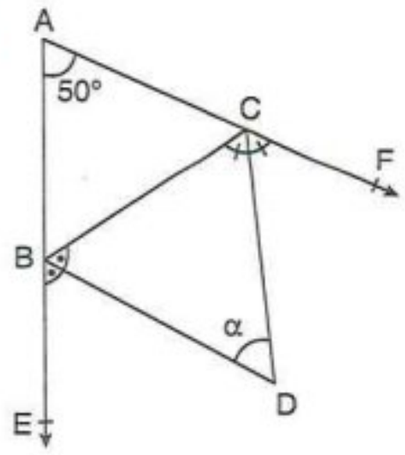
19.

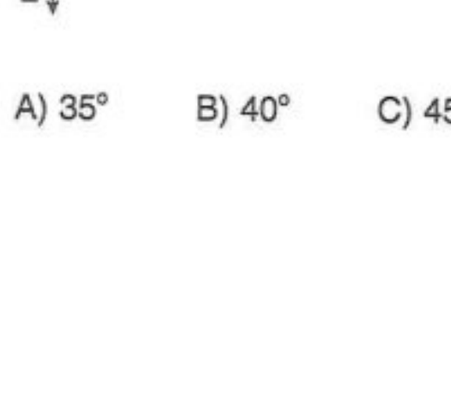


$m(\widehat{CBD}) = m(\widehat{DBE})$
$m(BCD) = m(\widehat{FCD})$
$m(\widehat{BAC}) = 50°$

⇒ $m(\widehat{BDC}) = \alpha = ?$

A) 35° B) 40° C) 45° D) 55° E) 65°

20.

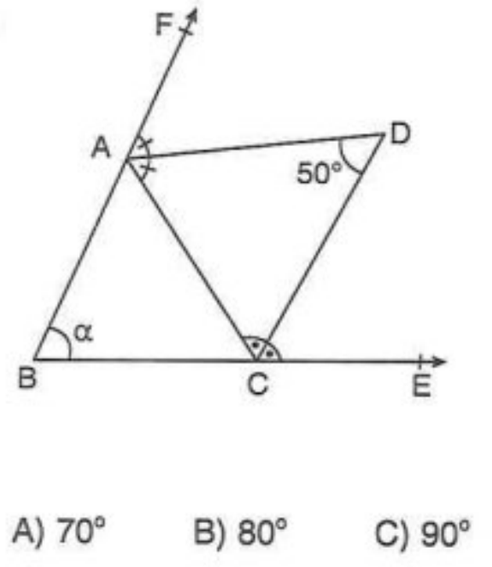


$m(\widehat{FAD}) = m(\widehat{DAC})$
$m(\widehat{ACD}) = m(\widehat{DCE})$
$m(\widehat{ADC}) = 50°$

⇒ $m(\widehat{ABC}) = \alpha = ?$

A) 70° B) 80° C) 90° D) 100° E) 110°

21.

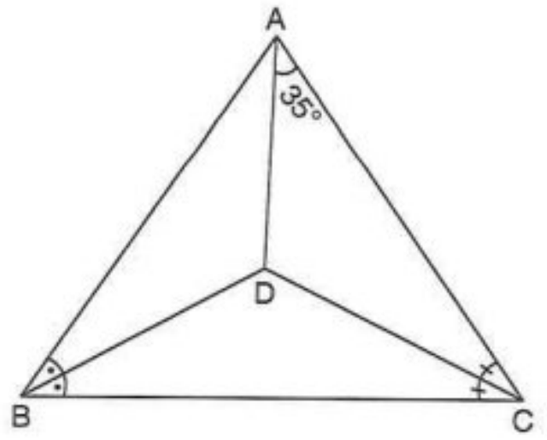


$m(\widehat{EAD}) = m(\widehat{DAC})$
$m(\widehat{ACD}) = m(\widehat{DCF})$
$m(\widehat{EBF}) = 2\alpha$
$m(\widehat{ADC}) = 4\alpha - 10°$

⇒ $\alpha = ?$

A) 20° B) 30° C) 45° D) 50° E) 65°

22.

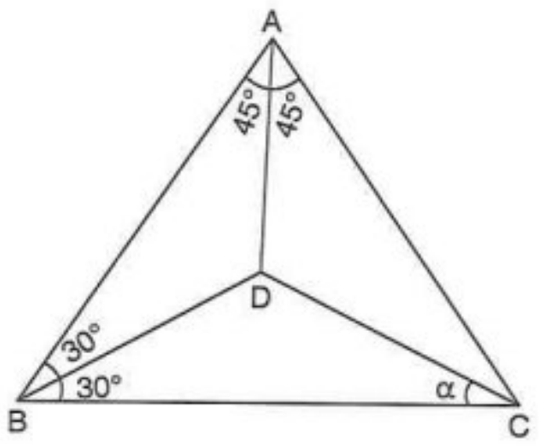


$m(\widehat{ABD}) = m(\widehat{DBC})$
$m(\widehat{ACD}) = m(\widehat{DCB})$
$m(\widehat{DAC}) = 35°$

⇒ $m(\widehat{BAD}) = ?$

A) 25° B) 35° C) 45° D) 50° E) 60°

23.

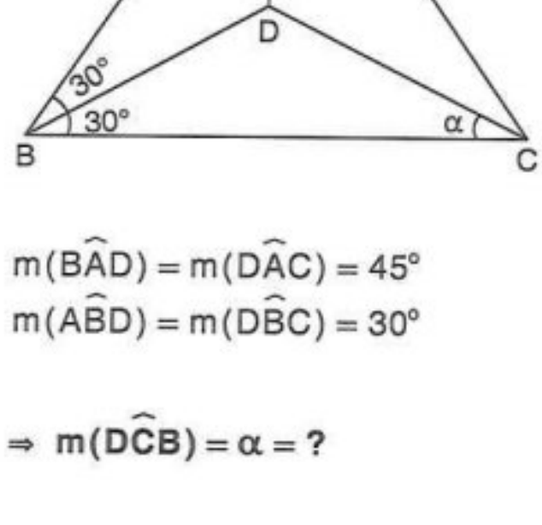


$m(\widehat{BAD}) = m(\widehat{DAC}) = 45°$
$m(\widehat{ABD}) = m(\widehat{DBC}) = 30°$

⇒ $m(\widehat{DCB}) = \alpha = ?$

A) 5° B) 15° C) 20° D) 25° E) 30°

24.



$m(\widehat{BAD}) = m(\widehat{DAC})$
$m(\widehat{ACD}) = m(\widehat{DCB})$
$m(\widehat{ABC}) = 80°$

⇒ $m(\widehat{DBC}) = \alpha = ?$

A) 40° B) 45° C) 50° D) 65° E) 80°

13. C	14. B	15. D	16. C	17. E	18. B
19. E	20. B	21. A	22. B	23. B	24. A

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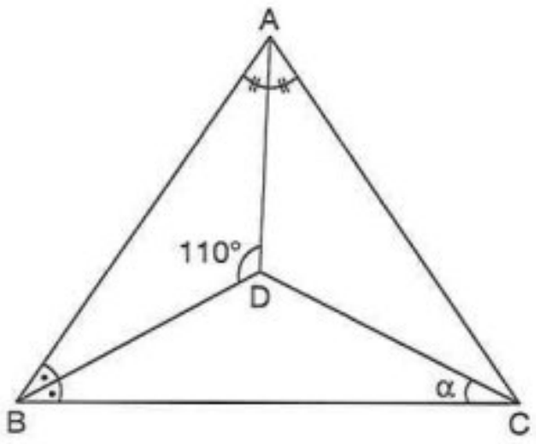
25.

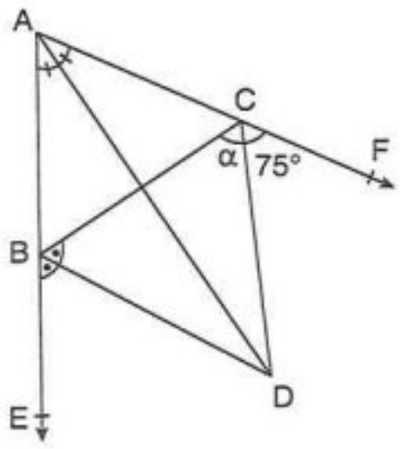


$m(\widehat{BAD}) = m(\widehat{DAC})$
$m(\widehat{ABD}) = m(\widehat{DBC})$
$m(\widehat{ADB}) = 110°$

$\Rightarrow$ **$m(\widehat{DCB}) = \alpha = ?$**

A) 10° B) 20° C) 30° D) 40° E) 60°

26.

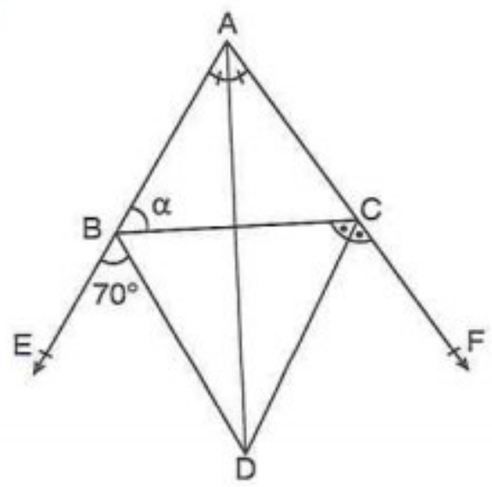


$m(\widehat{BAD}) = m(\widehat{DAF})$
$m(\widehat{EBD}) = m(\widehat{DBC})$
$m(\widehat{DCF}) = 75°$

$\Rightarrow$ **$m(\widehat{BCD}) = \alpha = ?$**

A) 30° B) 35° C) 45° D) 65° E) 75°

27.

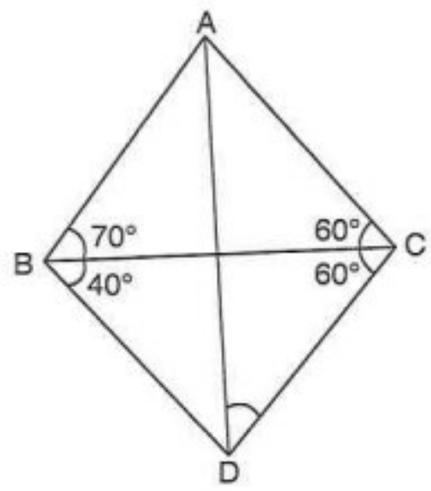


$m(\widehat{BAD}) = m(\widehat{DAF})$
$m(\widehat{BCD}) = m(\widehat{FCD})$
$m(\widehat{EBD}) = 70°$

$\Rightarrow$ **$m(\widehat{ABC}) = \alpha = ?$**

A) 30° B) 40° C) 50° D) 60° E) 70°

28.

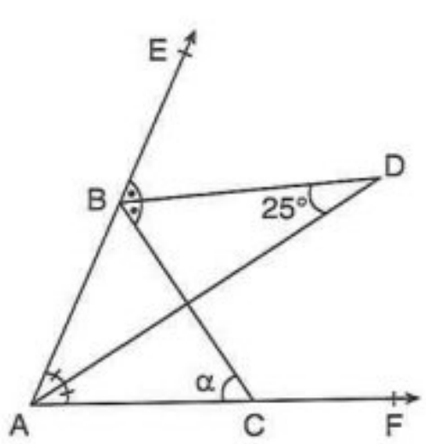


$m(\widehat{ACB}) = m(\widehat{BCD}) = 60°$
$m(\widehat{ABC}) = 70°$
$m(\widehat{CBD}) = 40°$

$\Rightarrow$ **$m(\widehat{ADC}) = \alpha = ?$**

A) 30° B) 40° C) 50° D) 60° E) 80°

29.

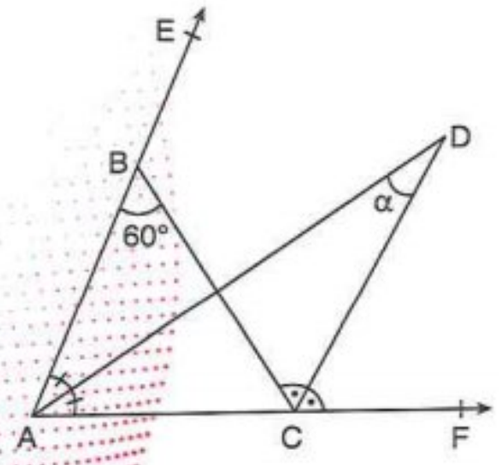


$m(\widehat{EBD}) = m(\widehat{DBC})$
$m(\widehat{BAD}) = m(\widehat{DAF})$
$m(\widehat{BDA}) = 25°$

$\Rightarrow$ **$m(\widehat{BCA}) = \alpha = ?$**

A) 12.5° B) 25° C) 45° D) 50° E) 75°

30.



$m(\widehat{EAD}) = m(\widehat{DAF})$
$m(\widehat{BCD}) = m(\widehat{DCF})$
$m(\widehat{ABC}) = 60°$

$\Rightarrow$ **$m(\widehat{ADC}) = \alpha = ?$**

A) 20° B) 30° C) 50° D) 90° E) 120°

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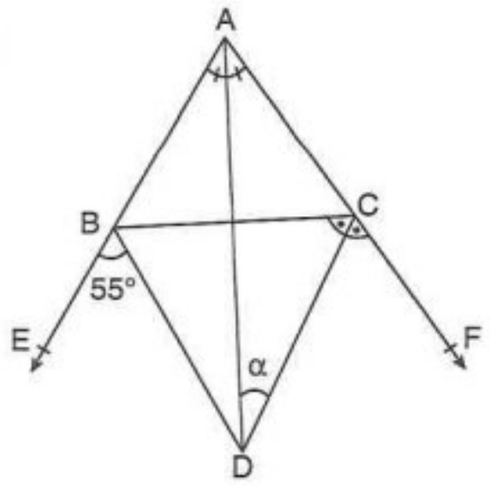
31.

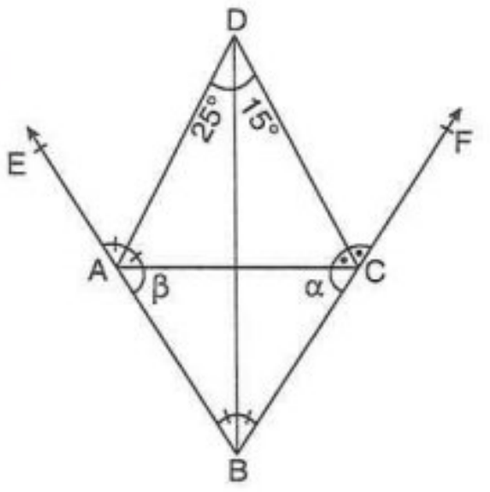


$m(\widehat{BAD}) = m(\widehat{DAF})$
$m(\widehat{BCD}) = m(\widehat{DCF})$
$m(\widehat{EBD}) = 55°$

$\Rightarrow m(\widehat{ADC}) = \alpha = ?$

A) 25° B) 35° C) 55° D) 70° E) 85°

32.

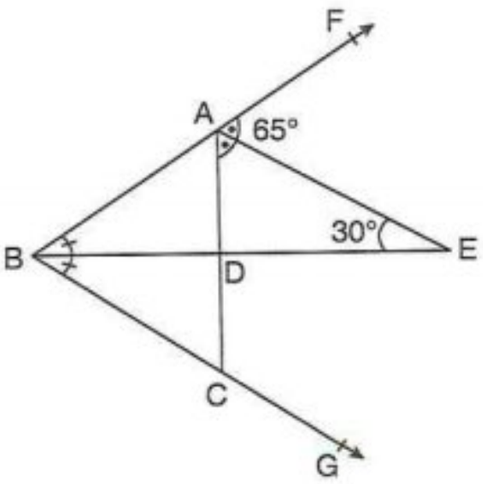


$m(\widehat{EAD}) = m(\widehat{DAC})$
$m(\widehat{ACD}) = m(\widehat{DCF})$
$m(\widehat{ADB}) = 25°$
$m(\widehat{BDC}) = 15°$
$m(\widehat{CAB}) = \beta$
$m(\widehat{ACB}) = \alpha$

$\Rightarrow \alpha - \beta = ?$

A) 20° B) 30° C) 45° D) 55° E) 70°

33.

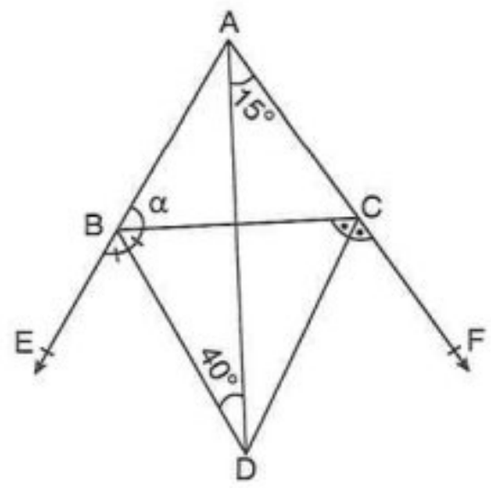


$m(\widehat{ABE}) = m(\widehat{EBG})$
$m(\widehat{FAE}) = m(\widehat{EAC})$
$m(\widehat{FAE}) = 65°$
$m(\widehat{AEB}) = 30°$
$m(\widehat{BAC}) = \alpha$
$m(\widehat{BCA}) = \beta$

$\Rightarrow \beta - \alpha = ?$

A) 5° B) 10° C) 15° D) 20° E) 25°

34.

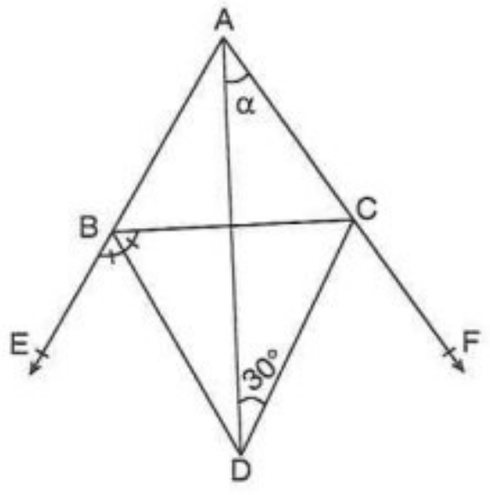


$m(\widehat{EBD}) = m(\widehat{DBC})$
$m(\widehat{BCD}) = m(\widehat{DCF})$
$m(\widehat{DAF}) = 15°$
$m(\widehat{ADB}) = 40°$

$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 30° B) 40° C) 50° D) 60° E) 70°

35.



$m(\widehat{EBD}) = m(\widehat{DBC})$
$m(\widehat{BCD}) = m(\widehat{DCF}) = 70°$
$m(\widehat{ADC}) = 30°$

$\Rightarrow m(\widehat{DAC}) = \alpha = ?$

A) 30° B) 40° C) 50° D) 60° E) 70°

36.

$m(\widehat{BAC}) = 70°$
$m(\widehat{ABD}) = 25°$
$m(\widehat{ACD}) = 35°$

$\Rightarrow m(\widehat{BDC}) = \alpha = ?$

A) 90° B) 100° C) 120° D) 130° E) 150°

25. B	26. E	27. B	28. B	29. D	30. B
31. B	32. A	33. B	34. E	35. B	36. D

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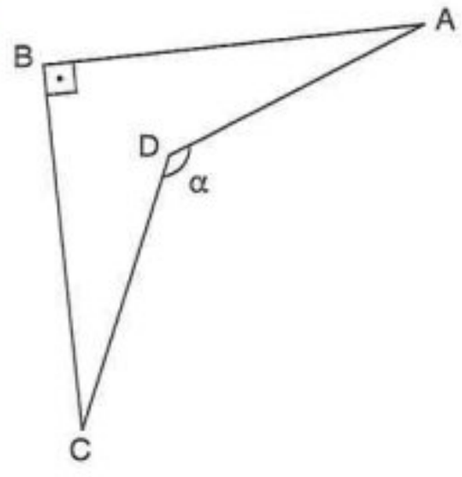
37.

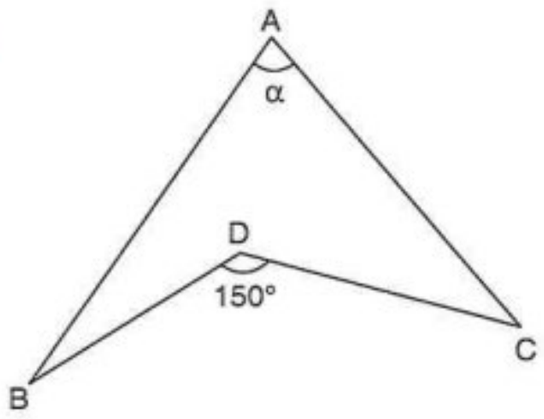


$[AB] \perp [BC]$
$m(\widehat{BAD}) = 15°$
$m(\widehat{BCD}) = 5°$

$\Rightarrow m(\widehat{ADC}) = \alpha = ?$

A) 90° B) 110° C) 120° D) 130° E) 150°

38.

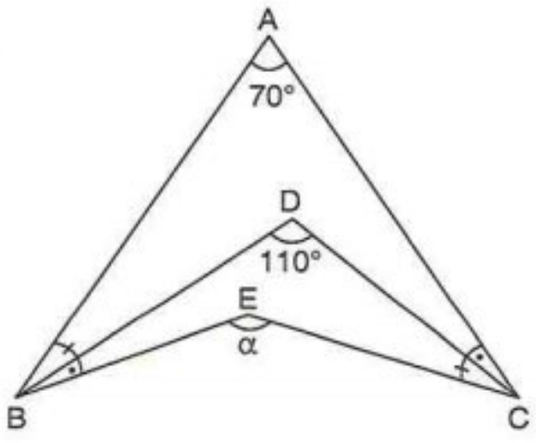


$m(\widehat{ABD}) = 55° - \beta$
$m(\widehat{ACD}) = 25° + \beta$
$m(\widehat{BDC}) = 150°$

$\Rightarrow m(\widehat{BAC}) = \alpha = ?$

A) 60° B) 70° C) 80° D) 90° E) 100°

39.

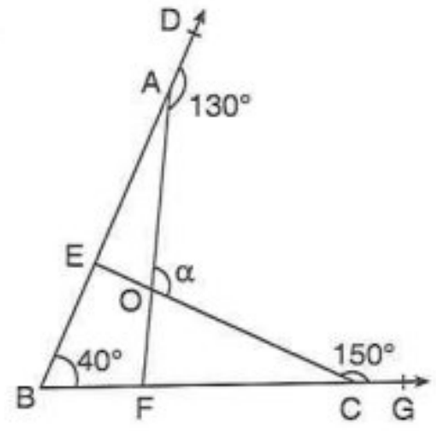


$m(\widehat{BAC}) = 70°$
$m(\widehat{BDC}) = 110°$
$m(\widehat{ACD}) = m(\widehat{DBE})$
$m(\widehat{DCE}) = m(\widehat{ABD})$

$\Rightarrow m(\widehat{BEC}) = \alpha = ?$

A) 120° B) 130° C) 140° D) 150° E) 160°

40.

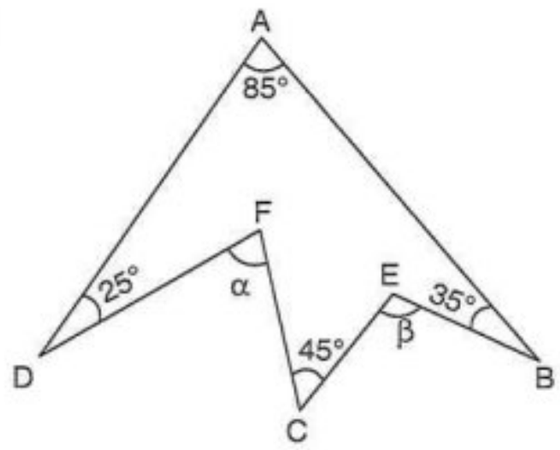


$m(\widehat{DBG}) = 40°$
$m(\widehat{DAF}) = 130°$
$m(\widehat{ECG}) = 150°$

$\Rightarrow m(\widehat{AOC}) = \alpha = ?$

A) 90° B) 100° C) 110° D) 120° E) 130°

41.

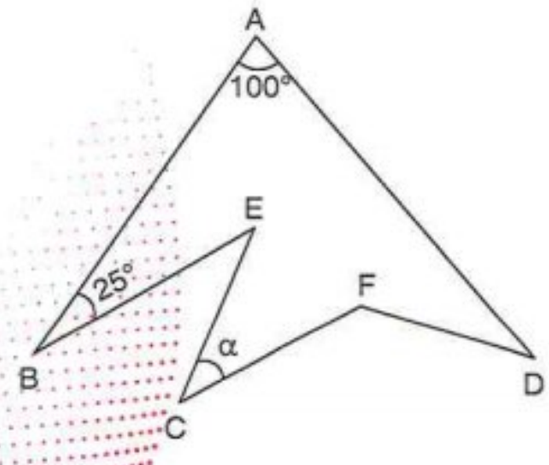


$m(\widehat{DAB}) = 85°$
$m(\widehat{ABE}) = 35°$
$m(\widehat{ADF}) = 25°$
$m(\widehat{FCE}) = 45°$
$m(\widehat{CEB}) = \beta$
$m(\widehat{DFC}) = \alpha$

$\Rightarrow \alpha + \beta = ?$

A) 100° B) 150° C) 170° D) 190° E) 200°

42.



$m(\widehat{BAD}) = 100°$
$m(\widehat{ABE}) = 25°$
$m(\widehat{ADF}) = 35°$
$m(\widehat{BEC}) = 40°$
$m(\widehat{CFD}) = 150°$

$\Rightarrow m(\widehat{ECF}) = \alpha = ?$

A) 20° B) 30° C) 40° D) 50° E) 70°

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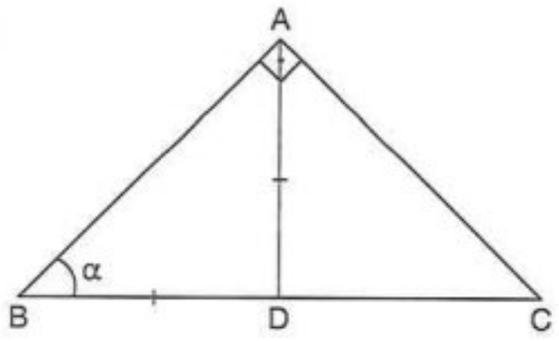
43.

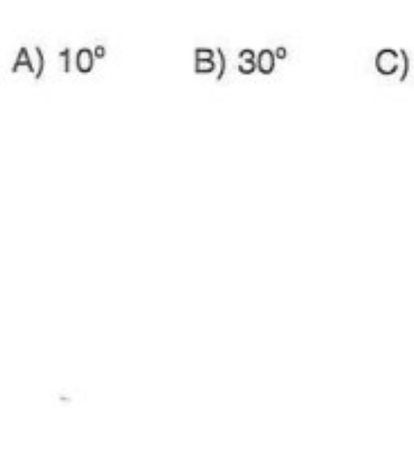


$[AB] \perp [AC]$
$|AD| = |BD|$
$m(\widehat{ABC}) = \alpha$
$m(\widehat{DAC}) = 30^\circ + 2\alpha$

$\Rightarrow$ **$m(\widehat{ACB}) = ?$**

A) 10° B) 30° C) 50° D) 70° E) 80°

44.

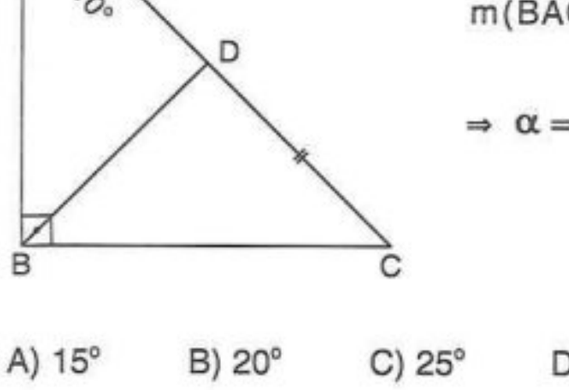


$[AB] \perp [BC]$
$|AD| = |DC|$
$m(\widehat{BCD}) = 70^\circ$
$m(\widehat{BAC}) = 2\alpha - 10^\circ$

$\Rightarrow$ **$\alpha = ?$**

A) 15° B) 20° C) 25° D) 30° E) 35°

45.

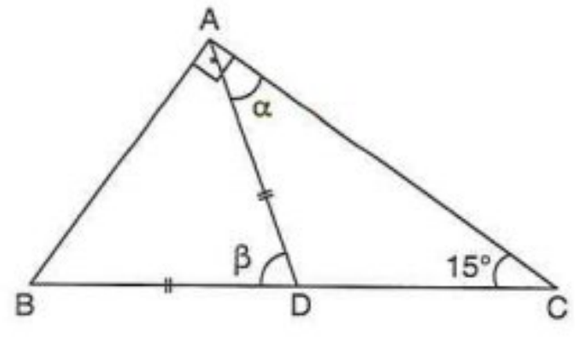


$[BA] \perp [AC]$
$|BD| = |DC|$
$m(\widehat{DAC}) = 20^\circ$
$m(\widehat{ABC}) = 2\alpha - 10^\circ$

$\Rightarrow$ **$\alpha = ?$**

A) 20° B) 30° C) 40° D) 50° E) 70°

46.

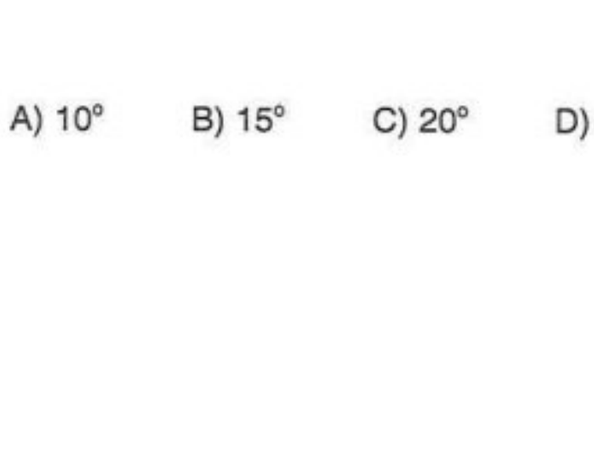


$[BA] \perp [AC]$
$|AD| = |BD|$
$m(\widehat{ACB}) = 15^\circ$
$m(\widehat{DAC}) = \alpha$
$m(\widehat{ADB}) = \beta$

$\Rightarrow$ **$\beta - \alpha = ?$**

A) 10° B) 15° C) 20° D) 25° E) 30°

47.

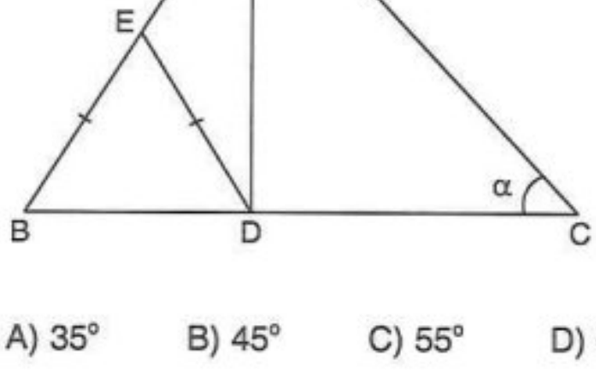


$|AE| = |EB| = |ED|$
$m(\widehat{DAC}) = 35^\circ$

$\Rightarrow$ **$m(\widehat{ACD}) = \alpha = ?$**

A) 35° B) 45° C) 55° D) 65° E) 75°

48.



$[BA] \perp [AC]$
$|AD| = |BE| = |EC|$
$m(\widehat{ACB}) = 60^\circ$
$m(\widehat{ADE}) = 65^\circ$

$\Rightarrow$ **$m(\widehat{DAB}) = \alpha = ?$**

A) 20° B) 25° C) 30° D) 40° E) 50°

37. B	38. B	39. D	40. D	41. D	42. B
43. D	44. A	45. C	46. B	47. C	48. A

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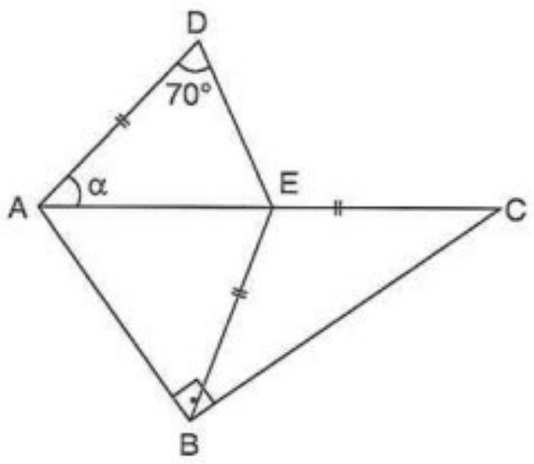
49.

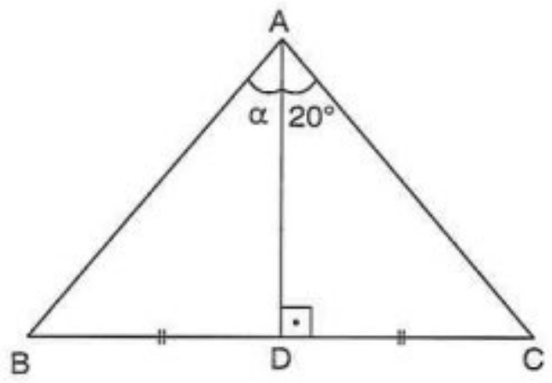


$[AB] \perp [BC]$
$|AD| = |BE| = |EC|$
$m(\widehat{ADE}) = 70°$

$\Rightarrow m(\widehat{DAE}) = \alpha = ?$

A) 5° B) 15° C) 20° D) 30° E) 40°

50.

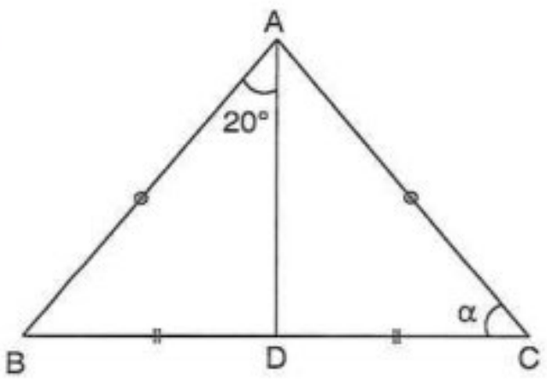


$[AD] \perp [BC]$
$m(\widehat{CAD}) = 20°$

$\Rightarrow m(\widehat{BAD}) = \alpha = ?$

A) 10° B) 20° C) 30° D) 50° E) 70°

51.

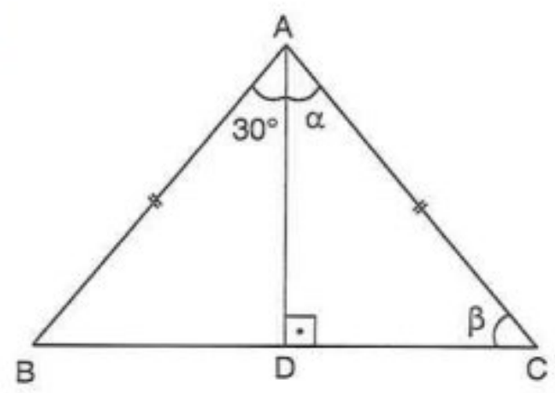


$|AB| = |AC|$
$|BD| = |DC|$
$m(\widehat{BAD}) = 20°$

$\Rightarrow m(\widehat{ACB}) = ?$

A) 20° B) 40° C) 70° D) 80° E) 90°

52.

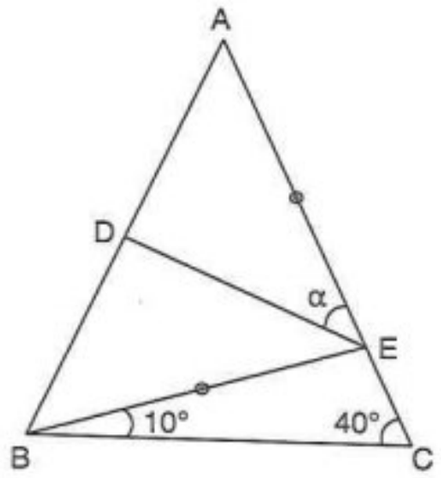


$[AD] \perp [BC]$
$|AB| = |AC|$
$m(\widehat{BAD}) = 30°$
$m(\widehat{DAC}) = \alpha$
$m(\widehat{ACD}) = \beta$

$\Rightarrow \beta - \alpha = ?$

A) 15° B) 20° C) 30° D) 45° E) 60°

53.

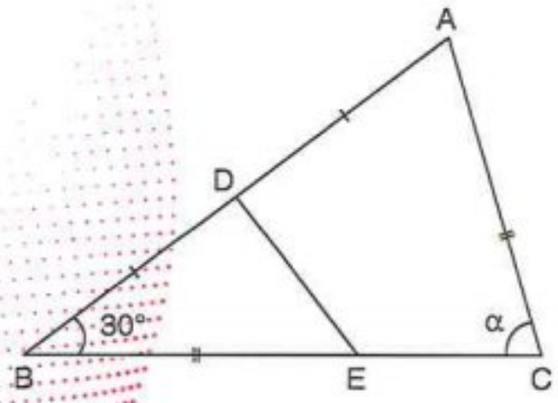


$[ED] \perp [AB]$
$|AE| = |EB|$
$m(\widehat{EBC}) = 10°$
$m(\widehat{ACB}) = 40°$

$\Rightarrow m(\widehat{AED}) = \alpha = ?$

A) 25° B) 30° C) 35° D) 50° E) 65°

54.



$[ED] \perp [AB]$
$|AD| = |DB|$
$|BE| = |AC|$
$m(\widehat{ABC}) = 30°$

$\Rightarrow m(\widehat{ACB}) = \alpha = ?$

A) 30° B) 40° C) 50° D) 60° E) 90°

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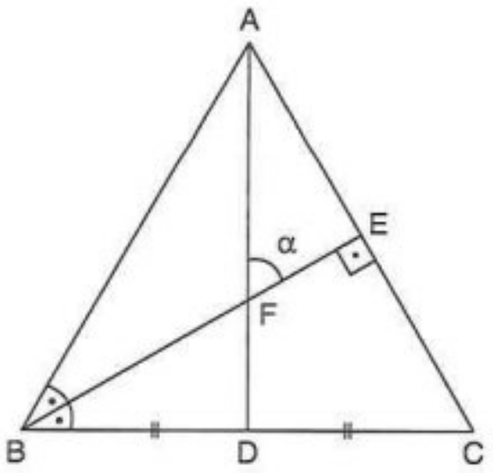
55.

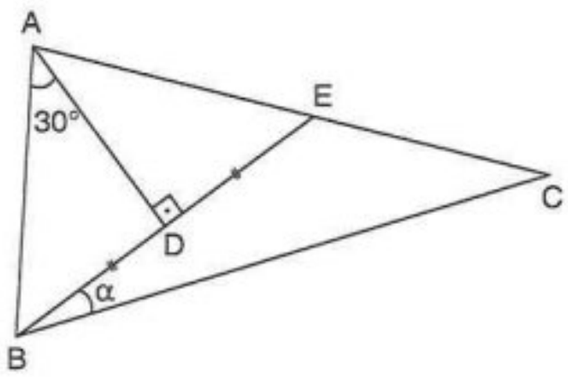


ABC Eşkenar üçgen
(*Equilateral triangle*)
$[BE] \perp [AC]$
$|BD| = |DC|$
$m(\widehat{ABE}) = m(\widehat{EBC})$

⇒ $m(\widehat{AFE}) = \alpha = ?$

A) 30° B) 40° C) 50° D) 60° E) 70°

56.

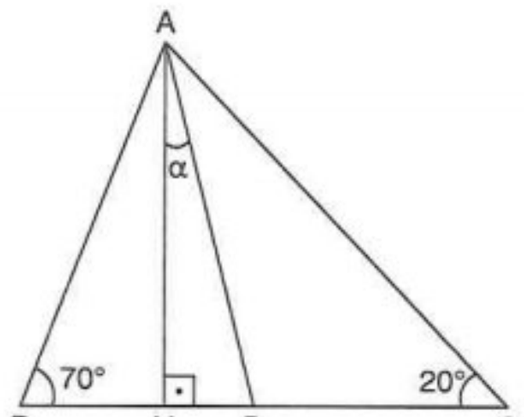


$[AD] \perp [BE]$
$|BD| = |DE|$
$m(\widehat{ACB}) = 2m(\widehat{EBC})$
$m(\widehat{BAD}) = 30°$

⇒ $m(\widehat{EBC}) = \alpha = ?$

A) 20° B) 30° C) 40° D) 60° E) 90°

57.

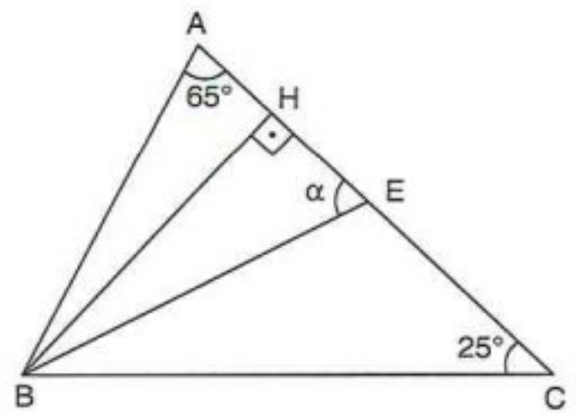


$[AH] \perp [BC]$
$m(\widehat{BAD}) = m(\widehat{DAC})$
$m(\widehat{ABC}) = 70°$
$m(\widehat{ACB}) = 20°$

⇒ $m(\widehat{HAD}) = \alpha = ?$

A) 15° B) 25° C) 35° D) 45° E) 50°

58.

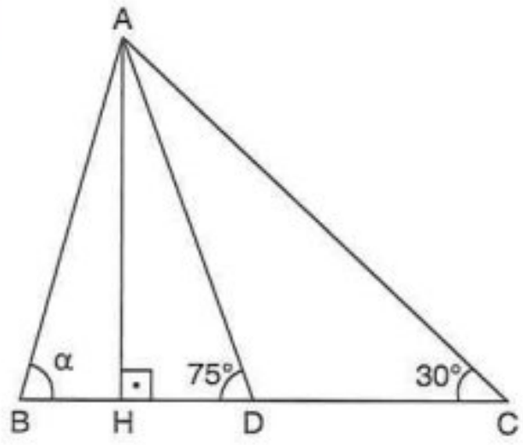


$[BH] \perp [AC]$
$m(\widehat{ABE}) = m(\widehat{EBC})$
$m(\widehat{BAC}) = 65°$
$m(\widehat{ACB}) = 25°$

⇒ $m(\widehat{HEB}) = \alpha = ?$

A) 20° B) 30° C) 40° D) 60° E) 70°

59.

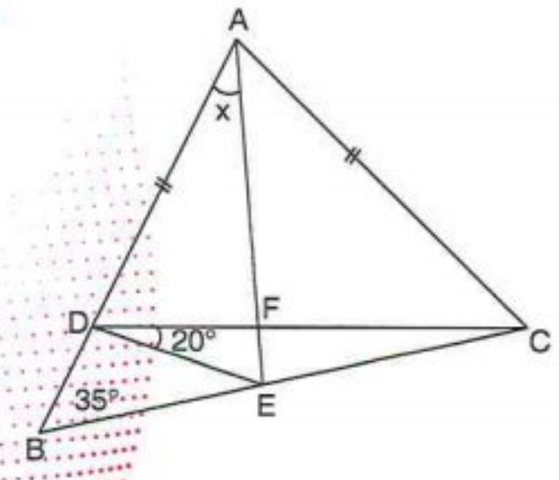


$[AH] \perp [BC]$
$m(\widehat{BAD}) = m(\widehat{DAC})$
$m(\widehat{ACB}) = 30°$
$m(\widehat{ADH}) = 75°$

⇒ $m(\widehat{ABC}) = \alpha = ?$

A) 15° B) 20° C) 35° D) 45° E) 60°

60.



$|AD| = |AC|$
$|DF| = |FC|$
$m(\widehat{EDC}) = 20°$
$m(\widehat{ABC}) = 35°$

⇒ $m(\widehat{BAE}) = x = ?$

A) 70° B) 65° C) 55° D) 35° E) 20°

49. E	50. B	51. C	52. C	53. A	54. D
55. D	56. A	57. B	58. E	59. E	60. D

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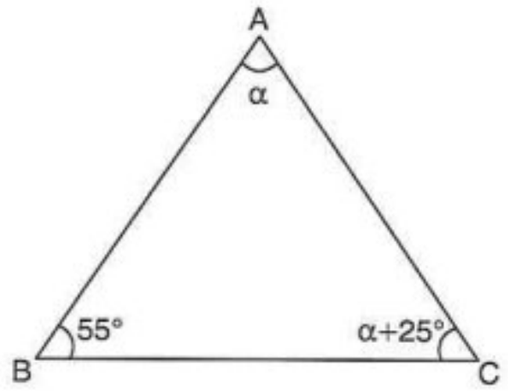
1.



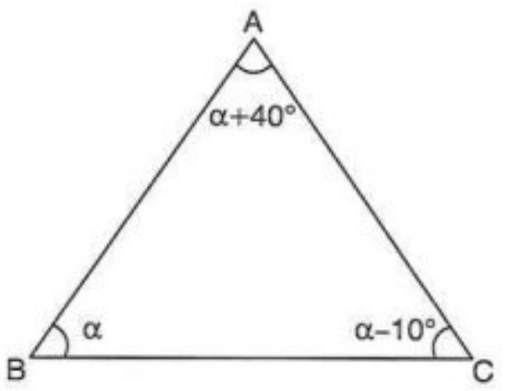
$m(\widehat{ABC}) = 55°$

$m(\widehat{ACB}) = \alpha + 25°$

⇒ $\mathbf{m(\widehat{BAC}) = \alpha = ?}$

A) 30° B) 50° C) 70° D) 80° E) 100°

2.



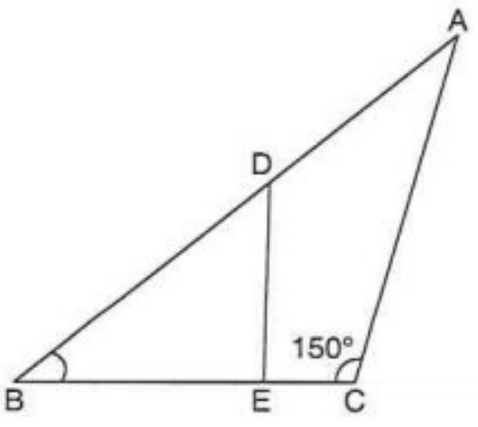
$m(\widehat{BAC}) = 40° + \alpha$

$m(\widehat{ACB}) = \alpha - 10°$

⇒ $\mathbf{m(\widehat{ABC}) = \alpha = ?}$

A) 20° B) 30° C) 40° D) 50° E) 60°

3.



$m(\widehat{BCA}) = 150°$

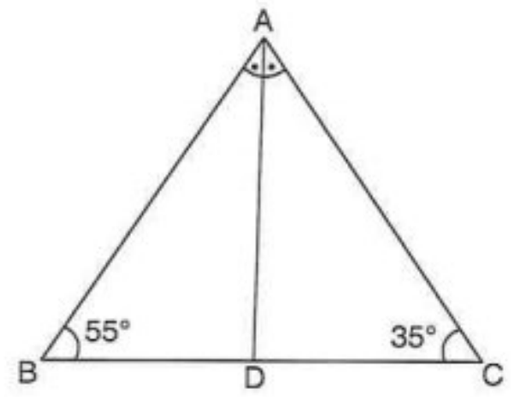
$m(\widehat{BDE}) = 60°$

$m(\widehat{BAC}) = 10°$

⇒ $\mathbf{m(\widehat{BED}) = ?}$

A) 80° B) 90° C) 100° D) 110° E) 120°

4.



[AD] açıortay (*bisector*)

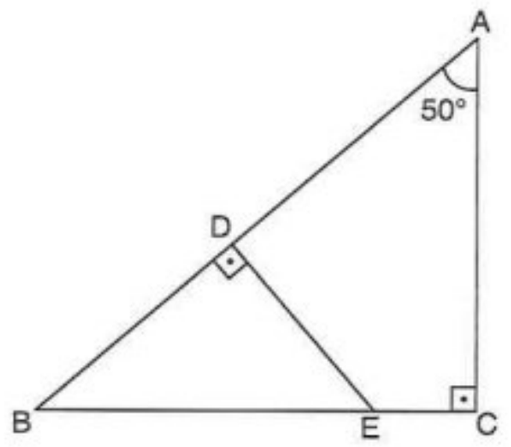
$m(\widehat{ABC}) = 55°$

$m(\widehat{BCA}) = 35°$

⇒ $\mathbf{m(\widehat{DAC}) = ?}$

A) 25° B) 35° C) 45° D) 55° E) 65°

5.



$[AC] \perp [BC]$

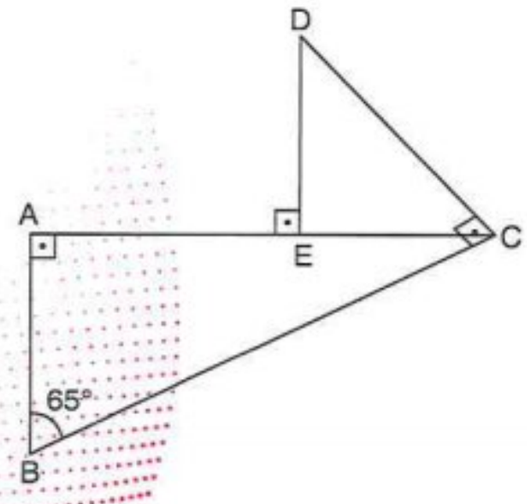
$[ED] \perp [AB]$

$m(\widehat{BAC}) = 50°$

⇒ $\mathbf{m(\widehat{BED}) = ?}$

A) 30° B) 40° C) 50° D) 60° E) 70°

6.



$[AB] \perp [AC]$

$[DC] \perp [BC]$

$[DE] \perp [AC]$

$m(\widehat{ABC}) = 65°$

⇒ $\mathbf{m(\widehat{EDC}) = ?}$

A) 25° B) 35° C) 45° D) 55° E) 65°

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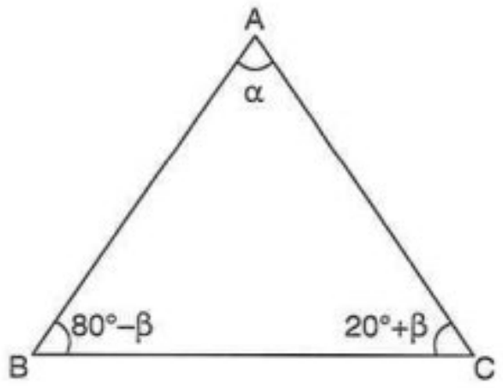
7.



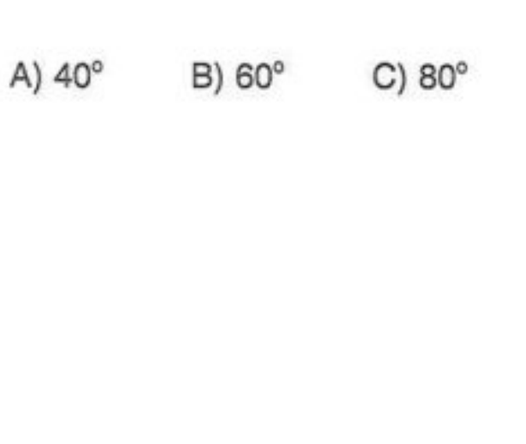
$m(\widehat{ABC}) = 80° - \beta$

$m(\widehat{ACB}) = 20° + \beta$

⇒ $m(\widehat{BAC}) = \alpha = ?$

A) 40° B) 60° C) 80° D) 100° E) 120°

8.



$[DF] \perp [AC]$

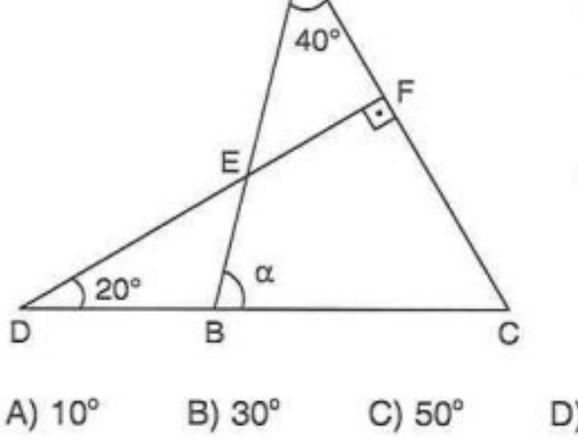
$m(\widehat{FDC}) = 20°$

$m(\widehat{BAC}) = 40°$

⇒ $m(\widehat{ABC}) = \alpha = ?$

A) 10° B) 30° C) 50° D) 70° E) 90°

9.



$[BA] \perp [AC]$

$[BD] \perp [DC]$

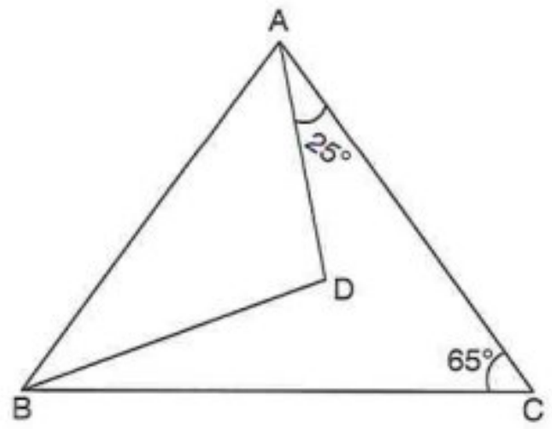
$m(\widehat{BCA}) = 25°$

$m(\widehat{ACD}) = 35°$

⇒ $m(\widehat{ABD}) = \alpha = ?$

A) 15° B) 25° C) 35° D) 45° E) 55°

10.



$m(\widehat{BAD}) = 2m(\widehat{DBC})$

$m(\widehat{DAC}) = 25°$

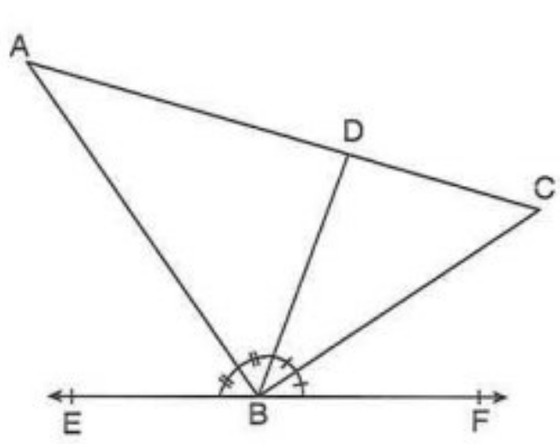
$m(\widehat{ABD}) = 30°$

$m(\widehat{BCA}) = 65°$

⇒ $m(\widehat{DBC}) = ?$

A) 20° B) 30° C) 40° D) 50° E) 60°

11.



$m(\widehat{EBA}) = m(\widehat{ABD})$

$m(\widehat{DBC}) = m(\widehat{CBF})$

$m(\widehat{BAC}) = 70°$

⇒ $m(\widehat{ACB}) = ?$

A) 20° B) 30° C) 40° D) 50° E) 70°

12.

$m(\widehat{DAC}) = 100°$

$m(\widehat{EBC}) = 130°$

⇒ $m(\widehat{BCA}) = \alpha = ?$

A) 50° B) 60° C) 70° D) 80° E) 100°

1. B	2. D	3. C	4. C	5. C	6. A
7. C	8. D	9. C	10. A	11. A	12. A

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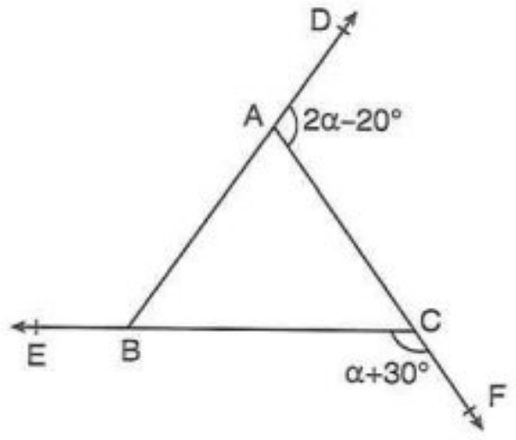
1.

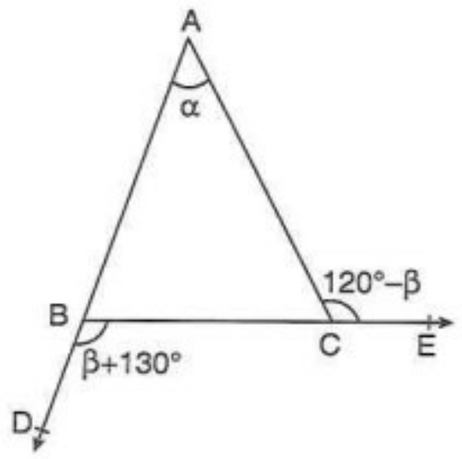


$m(D\widehat{A}C) = 2\alpha - 20°$
$m(B\widehat{C}F) = \alpha + 30°$
$m(D\widehat{B}E) = 3\alpha - 70°$

$\Rightarrow \alpha = ?$

A) 30° B) 50° C) 70° D) 90° E) 110°

2.

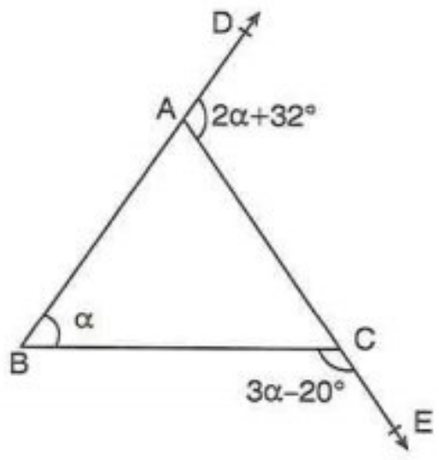


$m(D\widehat{B}E) = 130° + \beta$
$m(A\widehat{C}E) = 120° - \beta$

$\Rightarrow m(D\widehat{A}C) = \alpha = ?$

A) 50° B) 70° C) 90° D) 110° E) 130°

3.

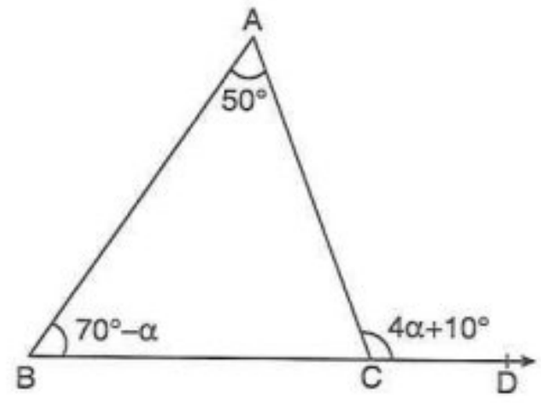


$m(D\widehat{A}E) = 2\alpha + 32°$
$m(B\widehat{C}E) = 3\alpha - 20°$

$\Rightarrow m(A\widehat{B}C) = \alpha = ?$

A) 38° B) 42° C) 48° D) 52° E) 54°

4.

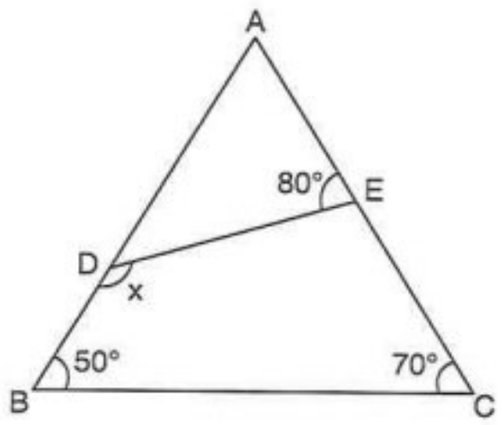


$m(B\widehat{A}C) = 50°$
$m(A\widehat{B}D) = 70° - \alpha$
$m(A\widehat{C}D) = 4\alpha + 10°$

$\Rightarrow \alpha = ?$

A) 20° B) 21° C) 22° D) 23° E) 24°

5.

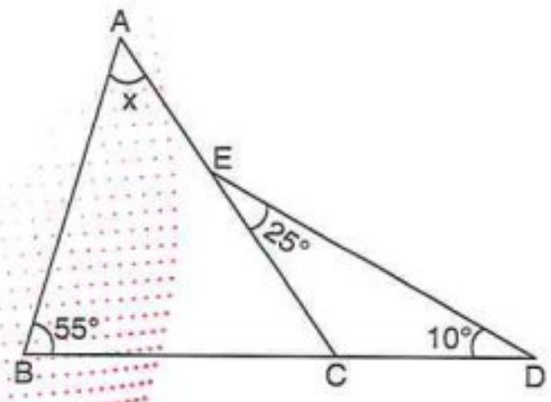


$m(A\widehat{B}C) = 50°$
$m(A\widehat{C}B) = 70°$
$m(A\widehat{E}D) = 80°$

$\Rightarrow m(B\widehat{D}E) = x = ?$

A) 100° B) 110° C) 120° D) 130° E) 140°

6.



$m(A\widehat{B}D) = 55°$
$m(C\widehat{E}D) = 25°$
$m(B\widehat{D}E) = 10°$

$\Rightarrow m(B\widehat{A}C) = x = ?$

A) 60° B) 70° C) 80° D) 90° E) 100°

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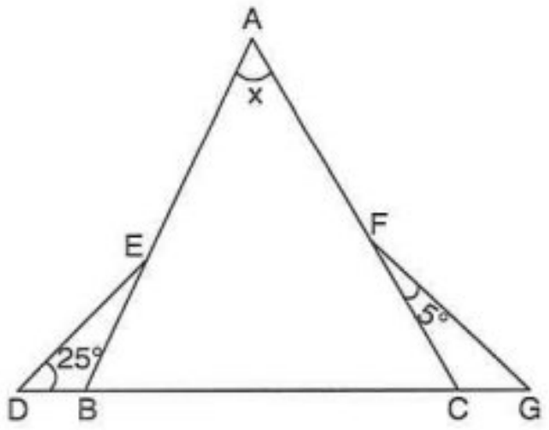
7.



$m(\widehat{EDG}) = 25°$
$m(\widehat{DEB}) = m(\widehat{DGF}) = 15°$
$m(\widehat{CFG}) = 5°$

⇒ $m(\widehat{BAC}) = x = ?$

A) 100° B) 110° C) 120° D) 130° E) 140°

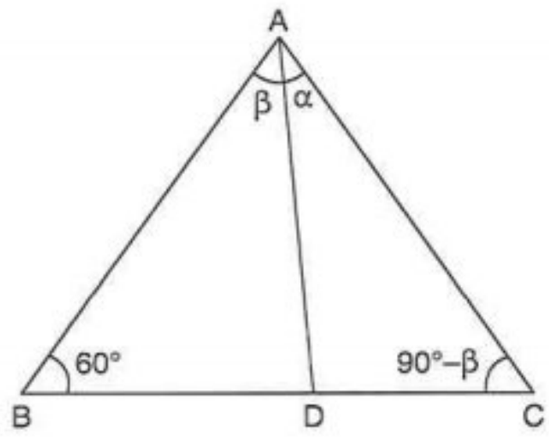
8.

$m(\widehat{ABC}) = 52°$
$m(\widehat{ACB}) = 43°$
$m(\widehat{DEA}) = 45°$

⇒ $m(\widehat{EDC}) = x = ?$

A) 30° B) 35° C) 40° D) 45° E) 50°

9.

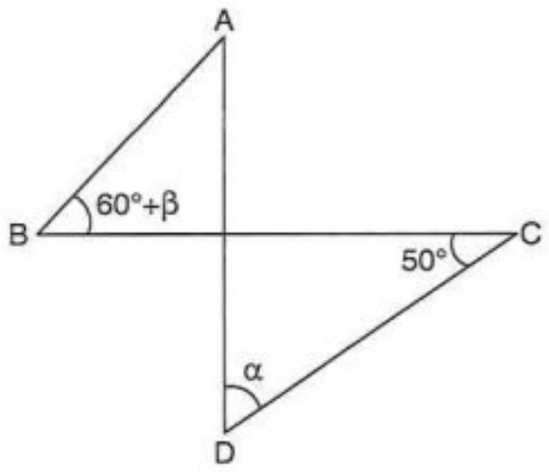


$m(\widehat{ABC}) = 60°$
$m(\widehat{ACB}) = 90 - \beta$
$m(\widehat{BAD}) = \beta$

⇒ $m(\widehat{DAC}) = \alpha = ?$

A) 20° B) 30° C) 40° D) 45° E) 50°

10.

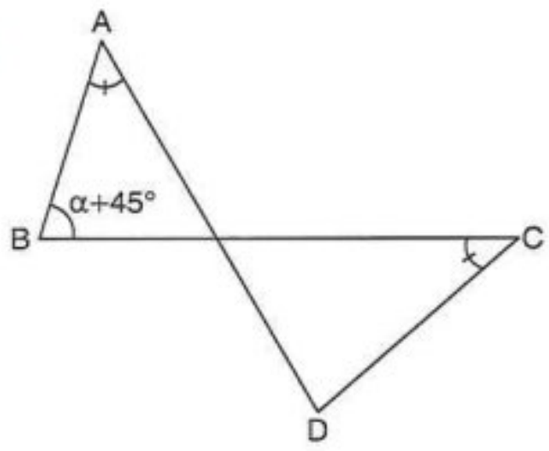


$m(\widehat{BAD}) = 70 - \beta$
$m(\widehat{ABC}) = 60 + \beta$
$m(\widehat{BCD}) = 50°$

⇒ $m(\widehat{ADC}) = \alpha = ?$

A) 30° B) 40° C) 50° D) 70° E) 80°

11.

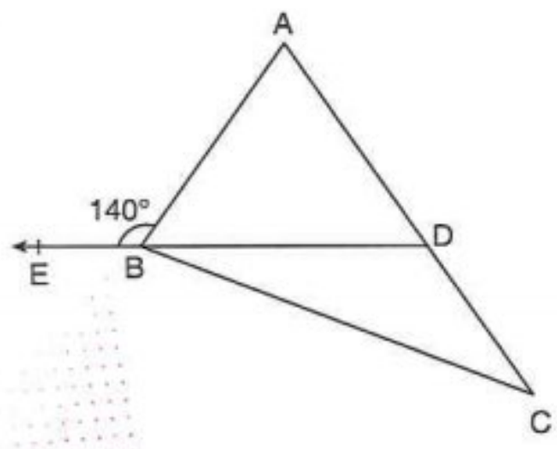


$m(\widehat{BAD}) = m(\widehat{BCD})$
$m(\widehat{ABC}) = \alpha + 45°$
$m(\widehat{ADC}) = 2\alpha - 30°$

⇒ $\alpha = ?$

A) 75° B) 85° C) 95° D) 115° E) 125°

12.



$4m(\widehat{DBC}) = 2m(\widehat{BCA}) = m(\widehat{BAC})$
$m(\widehat{EBA}) = 140°$

⇒ $m(\widehat{DBC}) = ?$

A) 10° B) 20° C) 40° D) 50° E) 70°

1. C	2. B	3. B	4. C	5. E	6. D
7. C	8. C	9. B	10. E	11. A	12. B

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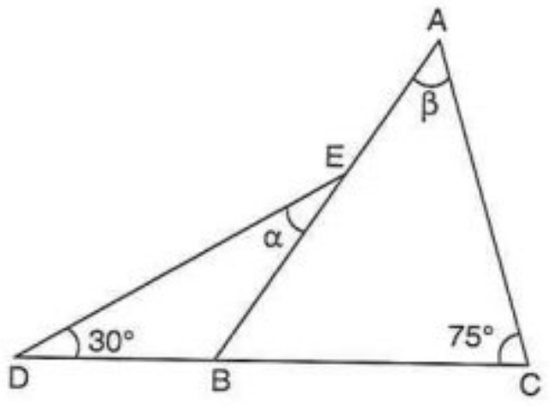
الممسوحة ضوئيا بـ CamScanner

1.

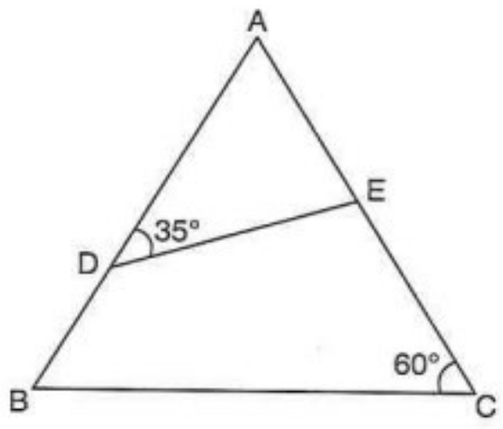


$m(A\hat{C}D) = 75°$
$m(E\hat{D}C) = 30°$
$m(D\hat{E}B) = \alpha$
$m(B\hat{A}C) = \beta$

$\Rightarrow \alpha + \beta = ?$

A) 45° B) 55° C) 65° D) 75° E) 85°

2.

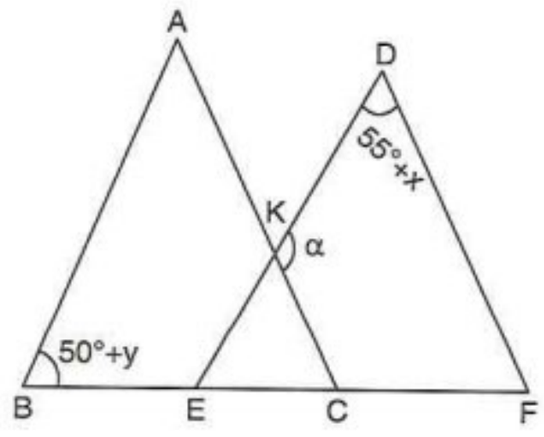


$m(A\hat{B}C) = 50°$
$m(A\hat{C}B) = 60°$
$m(A\hat{D}E) = 35°$

$\Rightarrow m(D\hat{E}C) = ?$

A) 105° B) 115° C) 125° D) 135° E) 145°

3.

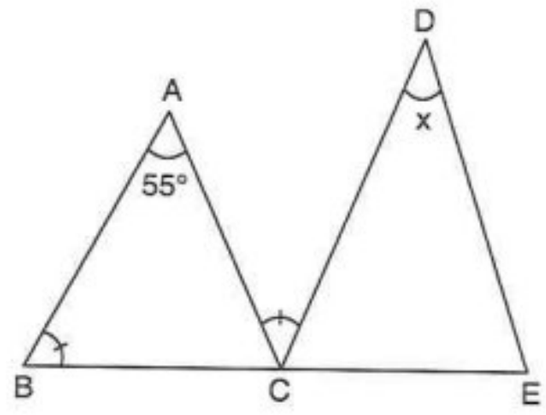


$m(B\hat{A}C) = 70 - x$
$m(A\hat{B}F) = 50 + y$
$m(E\hat{D}F) = 55 + x$
$m(D\hat{F}B) = 75 - y$

$\Rightarrow m(C\hat{K}D) = \alpha = ?$

A) 100° B) 110° C) 120° D) 130° E) 140°

4.

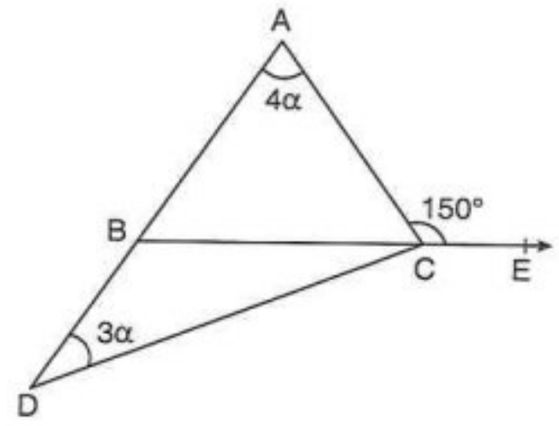


$m(A\hat{B}E) = m(A\hat{C}D)$
$m(B\hat{A}C) = 55°$
$m(B\hat{E}D) = 65°$

$\Rightarrow m(C\hat{D}E) = x = ?$

A) 45° B) 50° C) 55° D) 60° E) 65°

5.

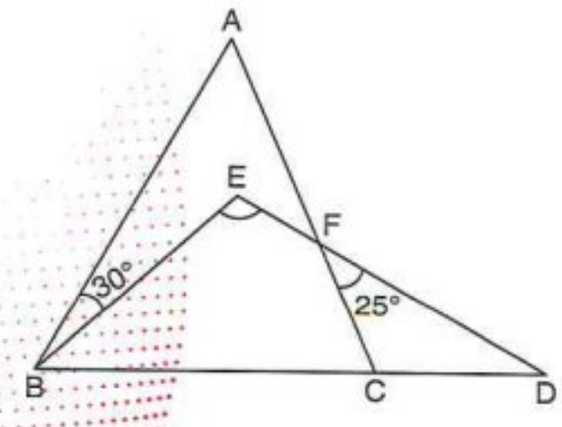


$m(A\hat{C}E) = 150°$
$m(D\hat{C}B) = 10°$
$m(A\hat{D}C) = 3\alpha$
$m(B\hat{A}C) = 4\alpha$

$\Rightarrow \alpha = ?$

A) 20° B) 30° C) 40° D) 50° E) 60°

6.



$m(B\hat{A}C) = 55°$
$m(A\hat{B}E) = 30°$
$m(C\hat{F}D) = 25°$

$\Rightarrow m(B\hat{E}D) = x = ?$

A) 70° B) 90° C) 100° D) 110° E) 130°

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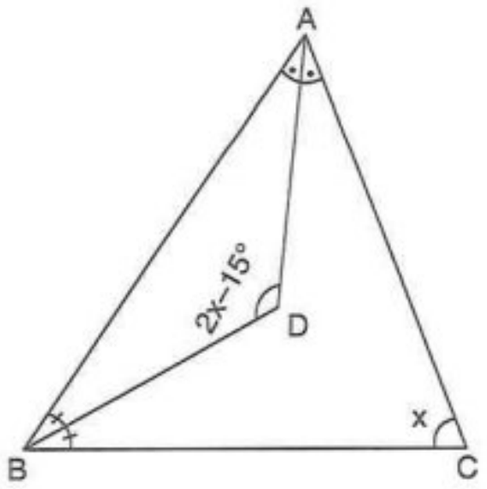
الممسوحة ضوئيا بـ CamScanner

7.

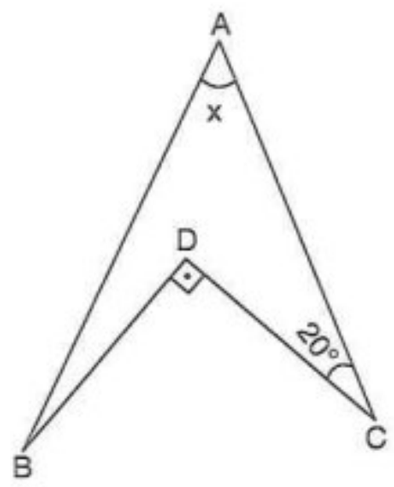


$m(B\widehat{A}D) = m(D\widehat{A}C)$
$m(A\widehat{B}D) = m(D\widehat{B}C)$

$\Rightarrow m(A\widehat{C}B) = x = ?$

A) 35° B) 55° C) 70° D) 95° E) 125°

8.

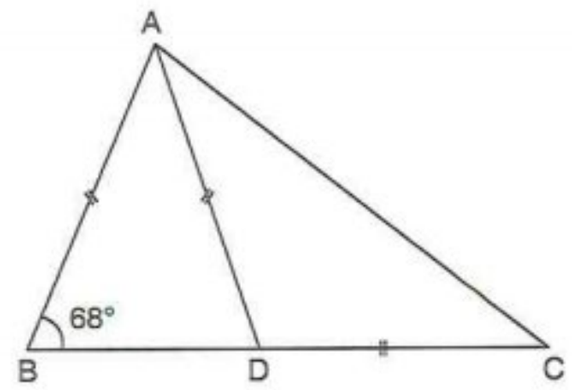


$[BD] \perp [CD]$
$m(A\widehat{B}D) = 15°$
$m(D\widehat{C}A) = 20°$

$\Rightarrow m(B\widehat{A}C) = x = ?$

A) 35° B) 40° C) 45° D) 50° E) 55°

9.

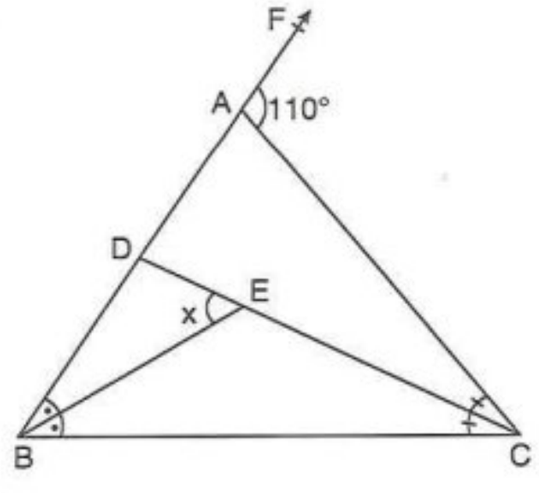


$|AB| = |AD| = |DC|$
$m(A\widehat{B}C) = 68°$

$\Rightarrow m(B\widehat{A}C) = ?$

A) 72° B) 78° C) 86° D) 88° E) 90°

10.

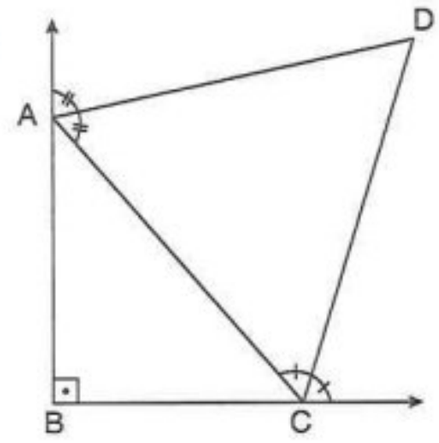


$m(A\widehat{C}D) = m(D\widehat{C}B)$
$m(C\widehat{B}E) = m(E\widehat{B}F)$
$m(F\widehat{A}C) = 110°$

$\Rightarrow m(D\widehat{E}B) = x = ?$

A) 45° B) 50° C) 55° D) 60° E) 65°

11.

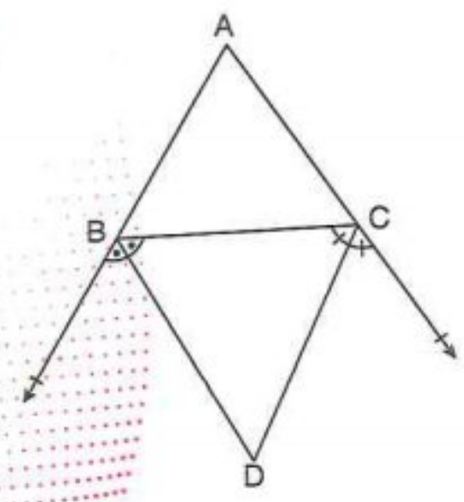


$[AD]$ ve $[CD]$ açıortay (*bisector*)
$[BA \perp [BC$

$\Rightarrow m(A\widehat{D}C) = ?$

A) 35° B) 40° C) 45° D) 50° E) 55°

12.



$[BD]$ ve $[CD]$ açıortay (*bisector*)
$m(B\widehat{A}C) = 2m(B\widehat{D}C)$

$\Rightarrow m(B\widehat{D}C) = ?$

A) 45° B) 55° C) 75° D) 80° E) 85°

1. D	2. A	3. B	4. D	5. A	6. D
7. C	8. E	9. B	10. C	11. C	12. A

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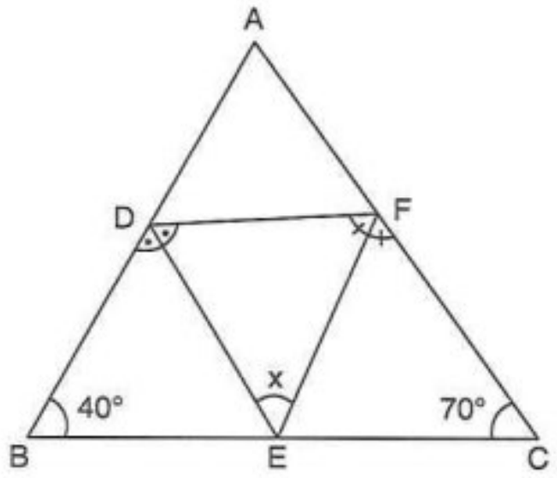
الممسوحة ضوئيا بـ CamScanner

1.

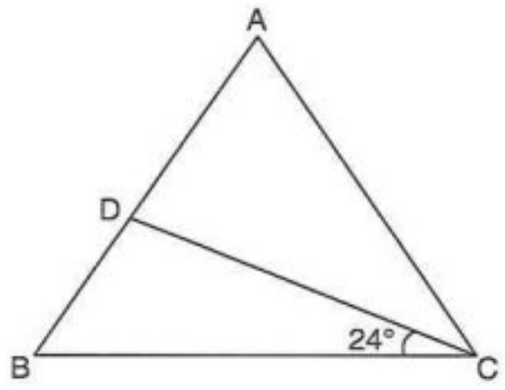


$m(\widehat{BDE}) = m(\widehat{EDF})$
$m(\widehat{DFE}) = m(\widehat{EFC})$
$m(\widehat{ABC}) = 40°$
$m(\widehat{ACB}) = 70°$

⇒ $\mathbf{m(\widehat{DEF}) = x = ?}$

A) 40° B) 45° C) 50° D) 55° E) 60°

2.



$|AB| = |AC|$
$|AD| = |DC|$
$m(\widehat{DCB}) = 24°$

⇒ $\mathbf{m(\widehat{ADC}) = ?}$

A) 48° B) 88° C) 92° D) 94° E) 98°

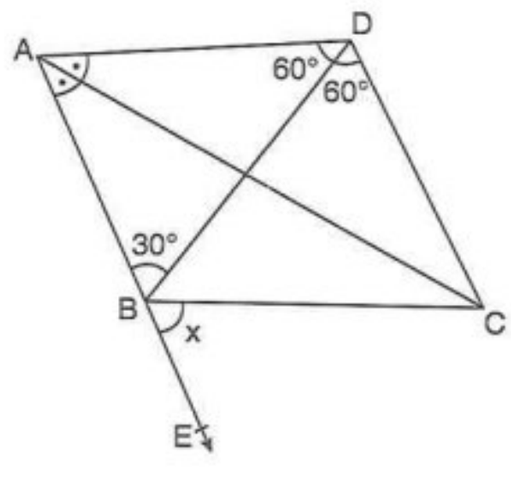
3.

$[AB] \perp [AC]$
$|AD| = |AC| = |EC|$
$m(\widehat{ACB}) = 60°$

⇒ $\mathbf{m(\widehat{BED}) = x = ?}$

A) 25° B) 35° C) 45° D) 55° E) 65°

4.

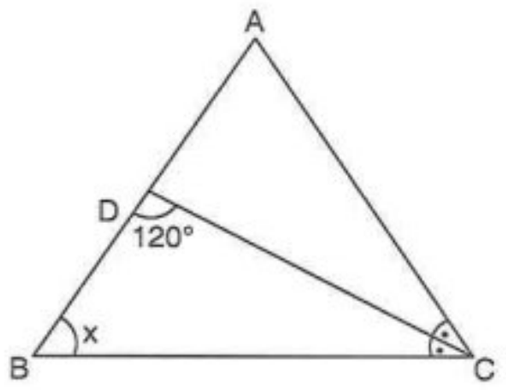


$m(\widehat{EAC}) = m(\widehat{CAD})$
$m(\widehat{ADB}) = m(\widehat{BDC}) = 60°$
$m(\widehat{ABD}) = 30°$

⇒ $\mathbf{m(\widehat{EBC}) = x = ?}$

A) 45° B) 55° C) 65° D) 75° E) 85°

5.

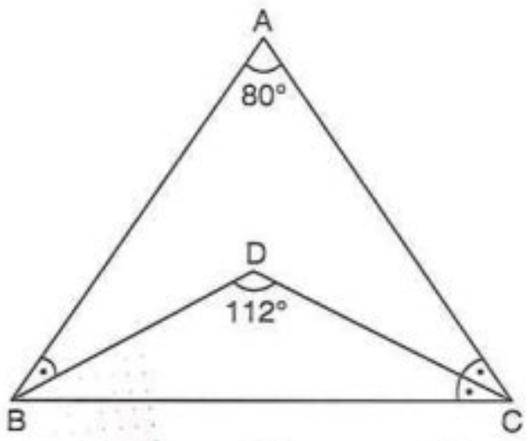


$2m(\widehat{BAC}) = 5m(\widehat{ABC})$
$m(\widehat{ACD}) = m(\widehat{DCB})$
$m(\widehat{BDC}) = 120°$

⇒ $\mathbf{m(\widehat{ABC}) = x = ?}$

A) 20° B) 25° C) 30° D) 35° E) 40°

6.



$m(\widehat{ABD}) = m(\widehat{BCD}) = m(\widehat{DCA})$
$m(\widehat{BAC}) = 80°$
$m(\widehat{BDC}) = 112°$

⇒ $\mathbf{m(\widehat{DBC}) = ?}$

A) 52° B) 54° C) 58° D) 60° E) 62°

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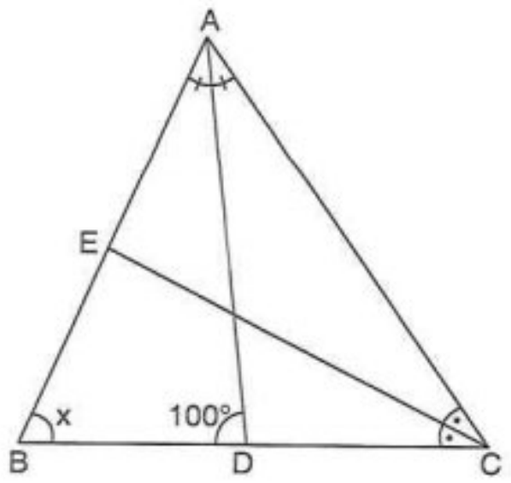
7.

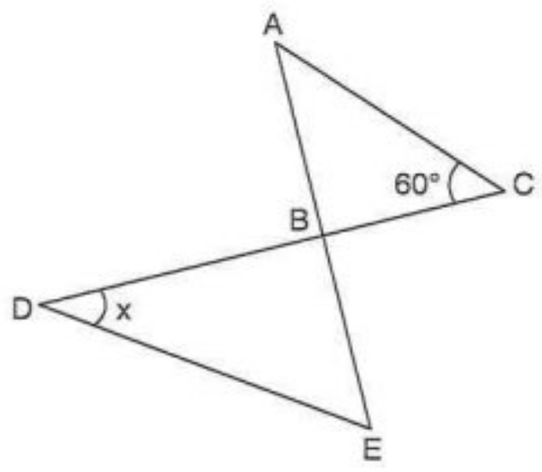


$m(\widehat{BAD}) = m(\widehat{DAC})$
$m(\widehat{BCE}) = m(\widehat{ECA})$
$m(\widehat{BEC}) = 110°$
$m(\widehat{BDA}) = 100°$

⇒ **$m(\widehat{ABC}) = x = ?$**

A) 40° B) 55° C) 70° D) 95° E) 125°

8.

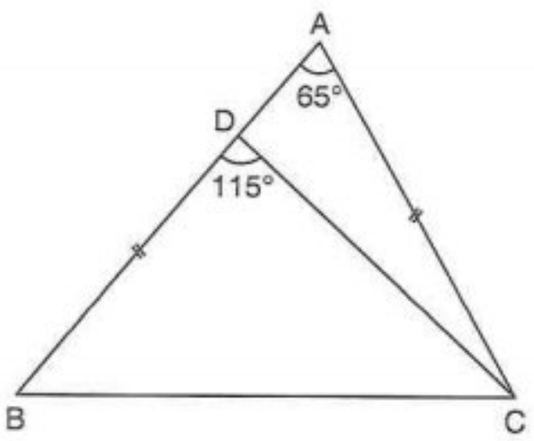


$|AC| = |DC| = |AE|$
$m(\widehat{EAC}) = 40°$
$m(\widehat{DCA}) = 60°$

⇒ **$m(\widehat{CDE}) = x = ?$**

A) 20° B) 30° C) 40° D) 50° E) 60°

9.

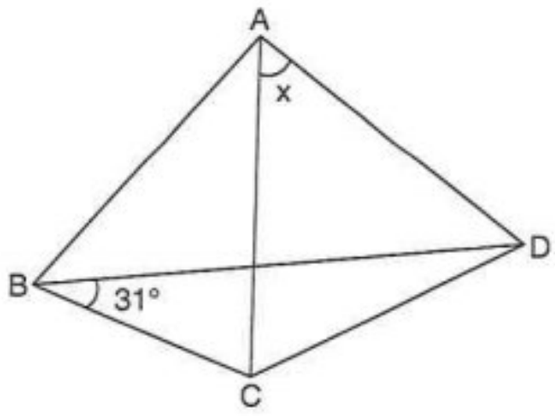


$|AC| = |BD|$
$m(\widehat{BAC}) = 65°$
$m(\widehat{BDC}) = 115°$

⇒ **$m(\widehat{ACB}) = ?$**

A) 68° B) 78.5° C) 82.5° D) 85° E) 90°

10.



$|AB| = |AD| = |AC|$
$m(\widehat{DBC}) = 31°$

⇒ **$m(\widehat{CAD}) = x = ?$**

A) 31° B) 62° C) 79° D) 83° E) 93°

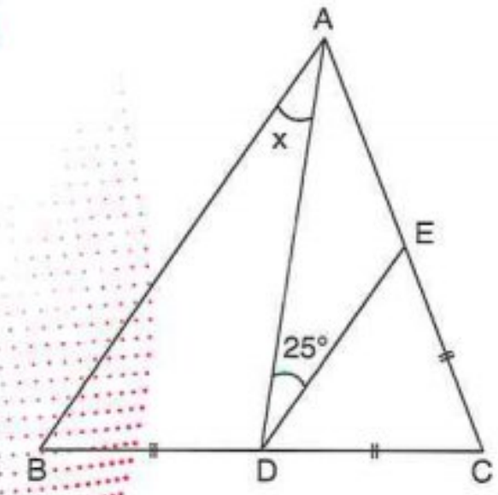
11.

[BE] açıortay (*bisector*)
[DE] // [BC]
$|AD| = |DB|$

⇒ **$m(\widehat{AEB}) = ?$**

A) 30° B) 45° C) 60° D) 75° E) 90°

12.



$|AB| = |AC|$
$|BD| = |DC| = |EC|$
$m(\widehat{ADE}) = 25°$

⇒ **$m(\widehat{BAD}) = x = ?$**

A) 20° B) 30° C) 40° D) 50° E) 60°

1. D	2. C	3. C	4. D	5. E	6. A
7. A	8. A	9. C	10. B	11. E	12. C

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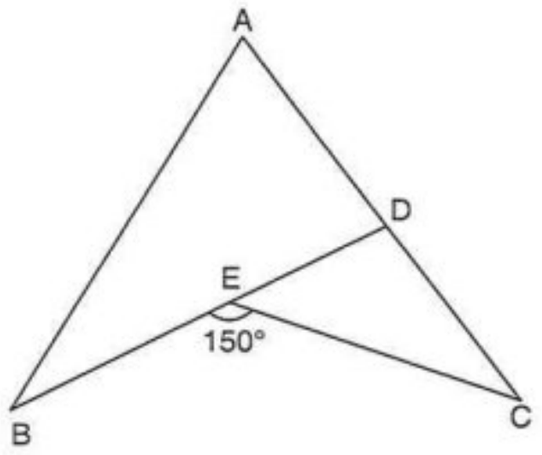
1.



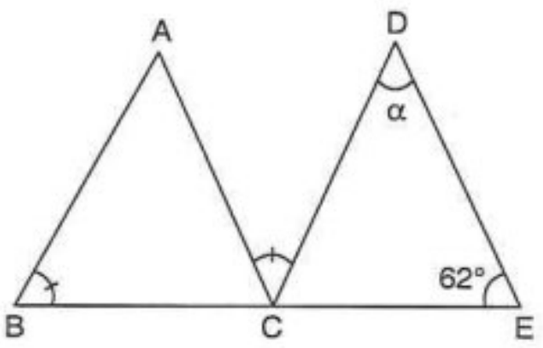
$m(B\hat{E}C) = 150°$

$6m(B\hat{A}D) = 2m(A\hat{D}B) = 3m(A\hat{C}E)$

$\Rightarrow$ **$m(B\hat{A}D) = ?$**

A) 20° B) 30° C) 50° D) 75° E) 90°

2.



$m(A\hat{B}C) = m(A\hat{C}D)$

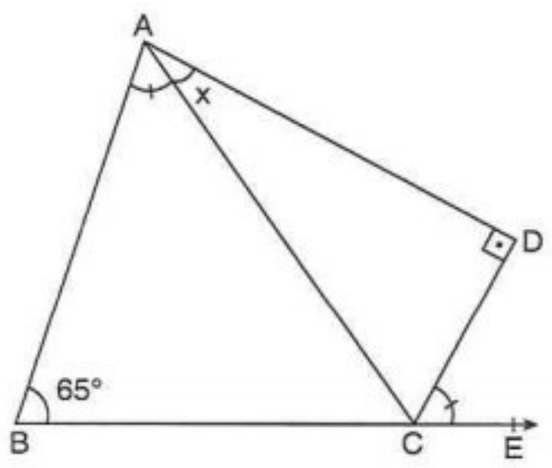
$m(B\hat{A}C) = 58°$

$m(D\hat{E}C) = 62°$

$\Rightarrow$ **$m(C\hat{D}E) = \alpha = ?$**

A) 20° B) 40° C) 60° D) 80° E) 100°

3.



$[AD] \perp [DC]$

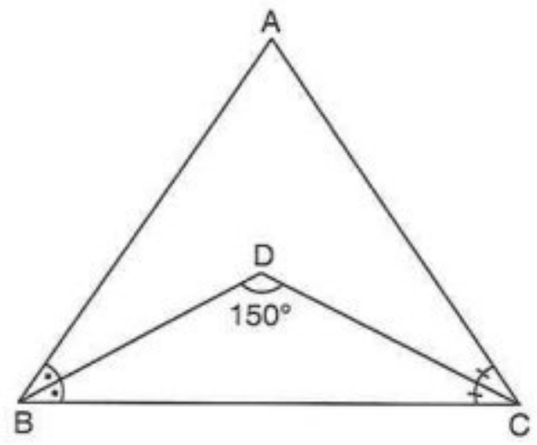
$m(B\hat{A}C) = m(D\hat{C}E)$

$m(A\hat{B}E) = 65°$

$\Rightarrow$ **$m(C\hat{A}D) = x = ?$**

A) 15° B) 25° C) 35° D) 45° E) 55°

4.



$m(A\hat{B}D) = m(D\hat{B}C)$

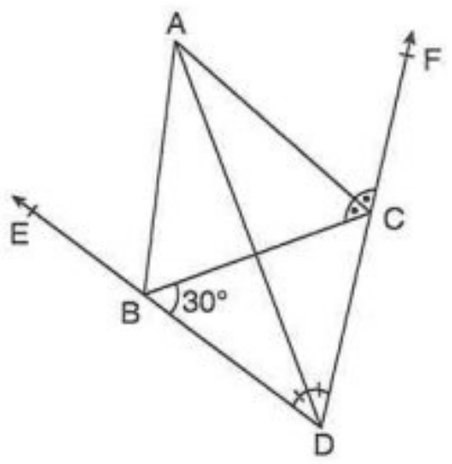
$m(B\hat{C}D) = m(D\hat{C}A)$

$m(B\hat{D}C) = 150°$

$\Rightarrow$ **$m(B\hat{A}C) = ?$**

A) 30° B) 60° C) 90° D) 120° E) 140°

5.



$m(B\hat{D}A) = m(A\hat{D}F)$

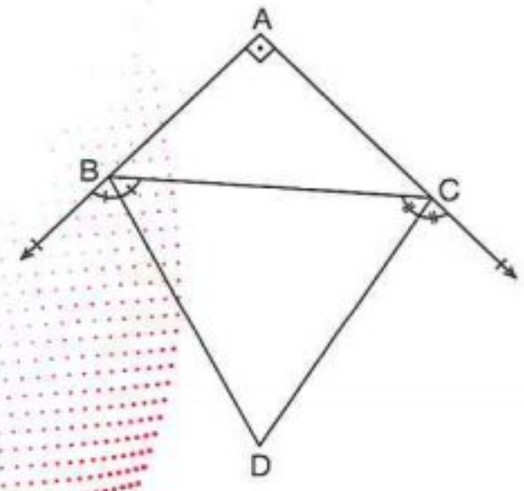
$m(B\hat{C}A) = m(A\hat{C}F)$

$m(D\hat{B}C) = 30°$

$\Rightarrow$ **$m(E\hat{B}A) = ?$**

A) 45° B) 56° C) 30° D) 70° E) 75°

6.



[BD] ve [DC] açıortay (*bisector*)

$\Rightarrow$ **$m(B\hat{D}C) = ?$**

A) 15° B) 30° C) 45° D) 60° E) 75°

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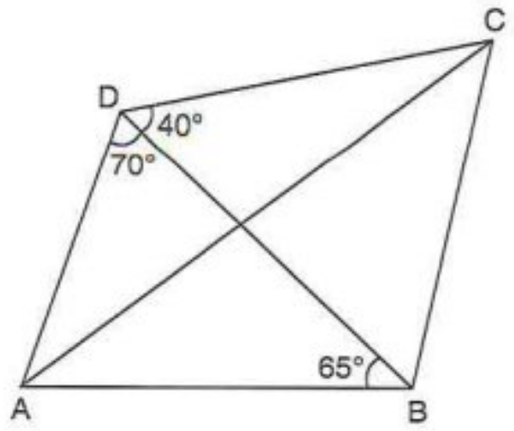
7.

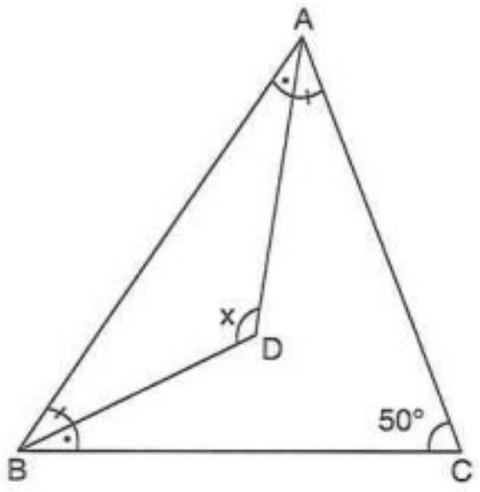


$m(A\widehat{D}B) = 70°$
$m(A\widehat{B}D) = 65°$
$m(D\widehat{B}C) = 50°$
$m(B\widehat{D}C) = 40°$

⇒ $m(A\widehat{C}B) = ?$

A) 25° B) 35° C) 45° D) 60° E) 75°

8.

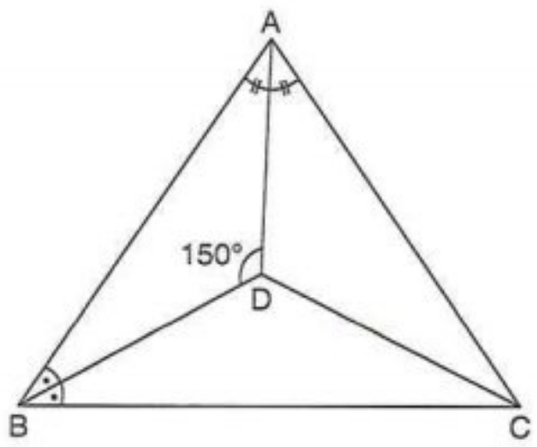


$m(B\widehat{A}D) = m(D\widehat{B}C)$
$m(D\widehat{A}C) = m(A\widehat{B}D)$
$m(B\widehat{C}A) = 50°$

⇒ $m(B\widehat{D}A) = x = ?$

A) 95° B) 105° C) 115° D) 125° E) 135°

9.



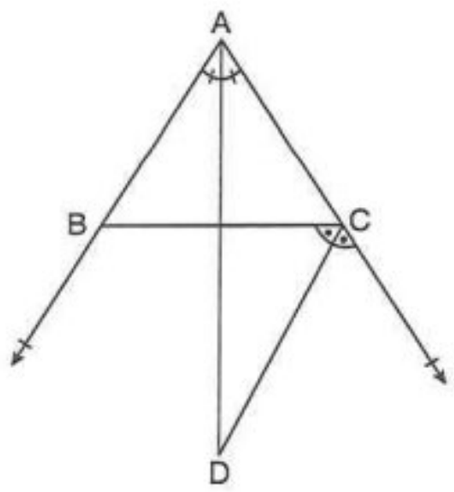
[AD] ve [BD] açıortay (*bisector*)

$m(B\widehat{D}A) = 150°$

⇒ $m(A\widehat{C}D) = ?$

A) 20° B) 30° C) 40° D) 60° E) 80°

10.



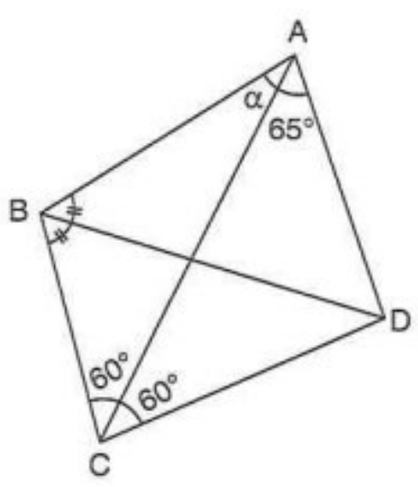
[AD] ve [CD] açıortay (*bisector*)

$m(A\widehat{D}C) = 35°$

⇒ $m(A\widehat{B}C) = ?$

A) 40° B) 50° C) 60° D) 70° E) 80°

11.

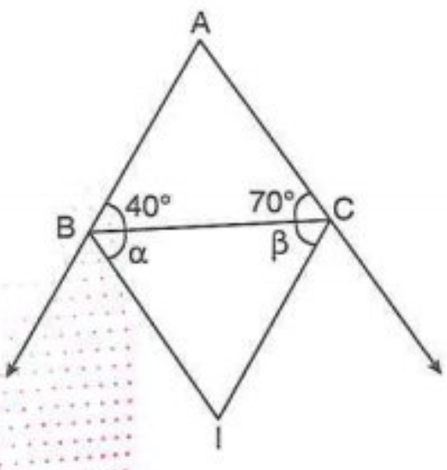


$m(A\widehat{B}D) = m(D\widehat{B}C)$
$m(B\widehat{C}A) = m(A\widehat{C}D) = 60°$
$m(C\widehat{A}D) = 65°$

⇒ $m(B\widehat{A}C) = \alpha = ?$

A) 20° B) 30° C) 40° D) 50° E) 60°

12.



I dış teğet çemberin merkezi

I, central point of the tangential circle

$m(A\widehat{B}C) = 40°$
$m(A\widehat{C}D) = 70°$
$m(C\widehat{B}I) = \alpha$
$m(B\widehat{C}I) = \beta$

⇒ $\alpha + \beta = ?$

A) 100° B) 115° C) 125° D) 135° E) 155°

1. B	2. C	3. B	4. D	5. E	6. C
7. C	8. C	9. D	10. D	11. D	12. C

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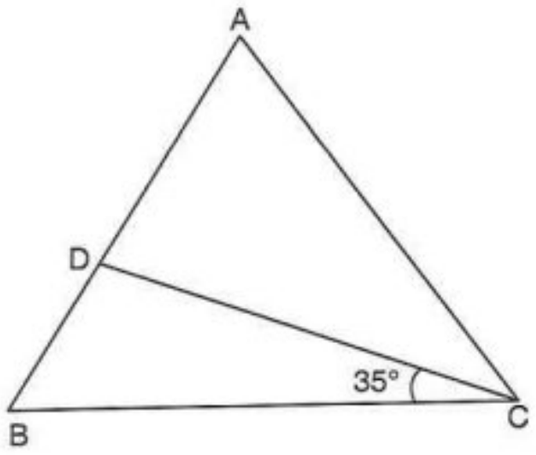
الممسوحة ضوئيا بـ CamScanner

1.

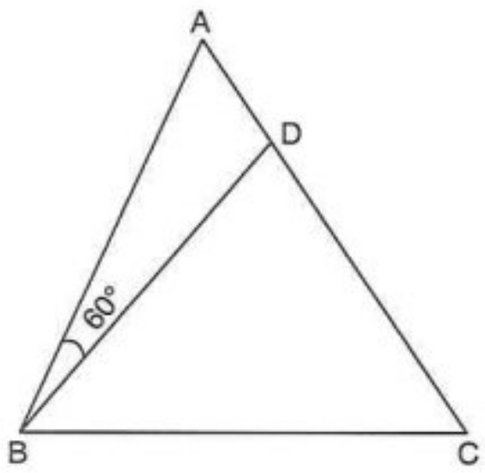


$|AB| = |AC|$
$|BC| = |CD|$
$m(B\widehat{C}D) = 35°$

⇒ $m(B\widehat{A}C) = ?$

A) 15° B) 25° C) 35° D) 45° E) 55°

2.

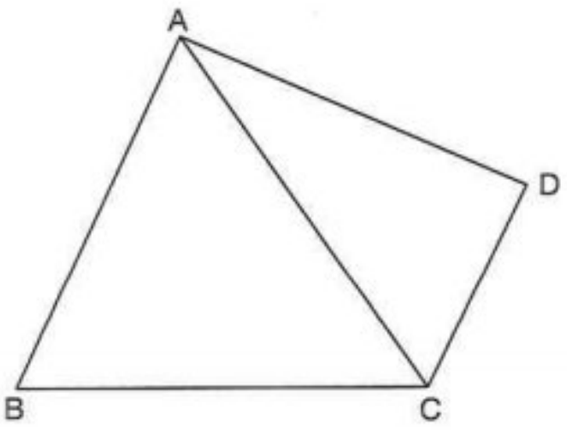


$|AB| = |BC|$
$|BD| = |DC|$
$m(A\widehat{B}D) = 60°$

⇒ $m(B\widehat{C}A) = ?$

A) 20° B) 30° C) 40° D) 50° E) 60°

3.

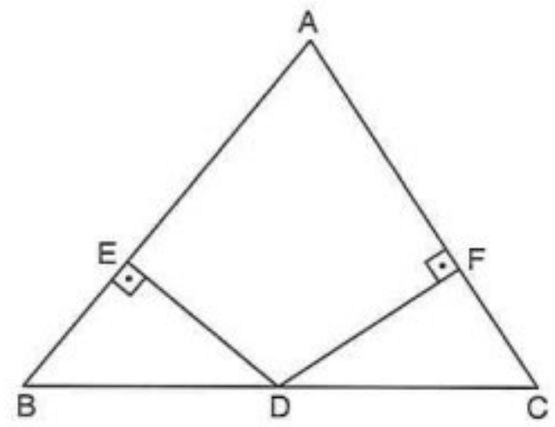


$|AB| = |BC| = |AC|$
$[AB] \perp [AD]$
$|AB| = |AD|$

⇒ $m(A\widehat{D}C) = ?$

A) 30° B) 45° C) 60° D) 75° E) 90°

4.

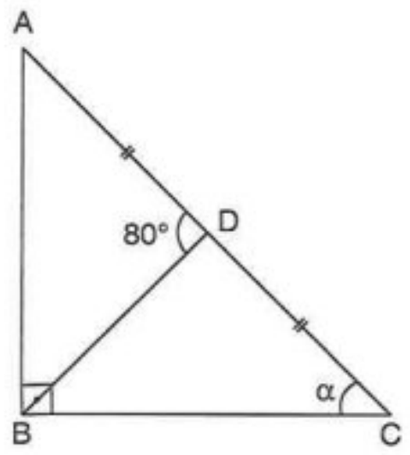


ABC eşkenar üçgen
ABC equilateral triangle
$[DE] \perp [AB]$
$[DF] \perp [AC]$

⇒ $m(E\widehat{D}F) = ?$

A) 120° B) 130° C) 140° D) 150° E) 160°

5.

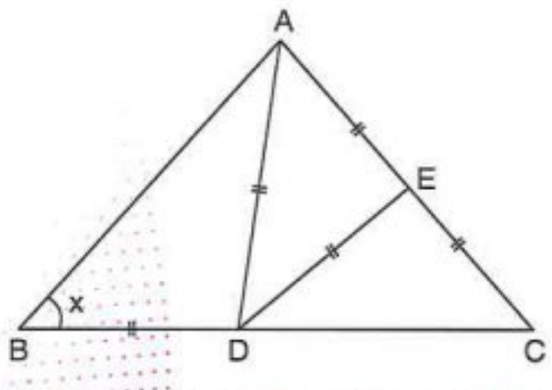


$[AB] \perp [BC]$
$|AD| = |DC|$
$m(A\widehat{D}B) = 80°$
$m(B\widehat{C}A) = 2\alpha$

⇒ $\alpha = ?$

A) 10° B) 20° C) 40° D) 50° E) 60°

6.



$|AD| = |BD| = |AE| = |EC| = |DE|$

⇒ $m(A\widehat{B}C) = x = ?$

A) 15° B) 30° C) 45° D) 60° E) 75°

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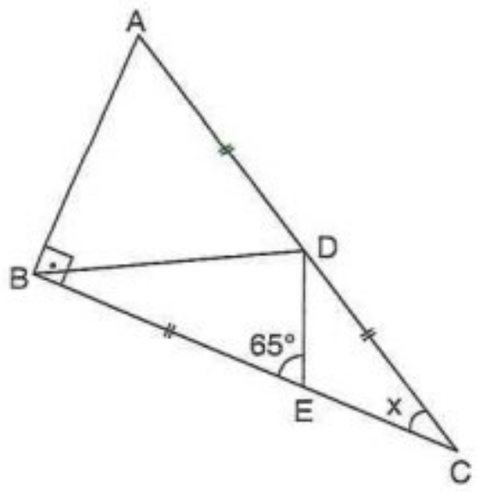
الممسوحة ضوئيا بـ CamScanner

7.

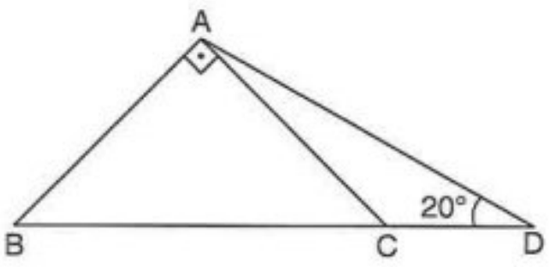


$[AB] \perp [BC]$
$|AD| = |DC| = |BE|$
$m(\widehat{BED}) = 65°$

$\Rightarrow m(\widehat{BCA}) = x = ?$

A) 30° B) 40° C) 50° D) 70° E) 80°

8.

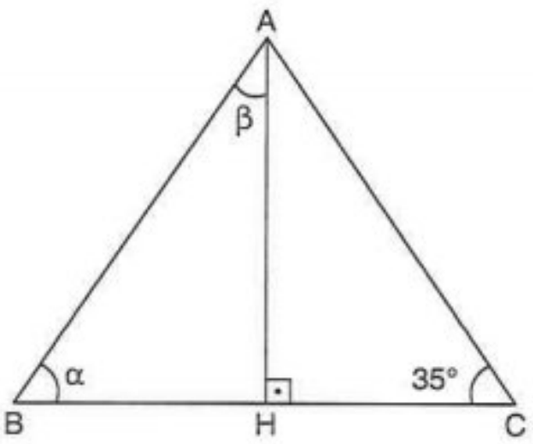


$[AB] \perp [AC]$
$|BC| = 2|AD|$
$m(\widehat{BDA}) = 20°$

$\Rightarrow m(\widehat{CAD}) = ?$

A) 30° B) 40° C) 50° D) 60° E) 70°

9.

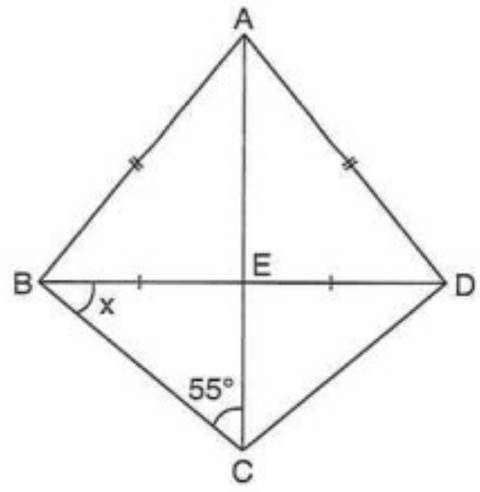


$[AH] \perp [BC]$
$|BH| = |HC|$
$m(\widehat{BCA}) = 35°$
$m(\widehat{ABC}) = \alpha$
$m(\widehat{BAH}) = \beta$

$\Rightarrow \beta - \alpha = ?$

A) 20° B) 40° C) 50° D) 60° E) 80°

10.

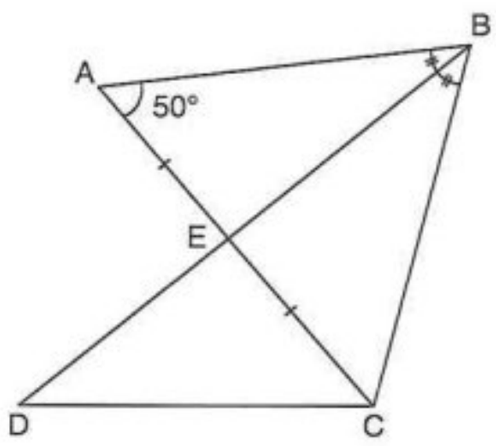


$|AB| = |AD|$
$|BE| = |ED|$
$m(\widehat{BCA}) = 55°$

$\Rightarrow m(\widehat{CBD}) = x = ?$

A) 15° B) 20° C) 25° D) 35° E) 55°

11.

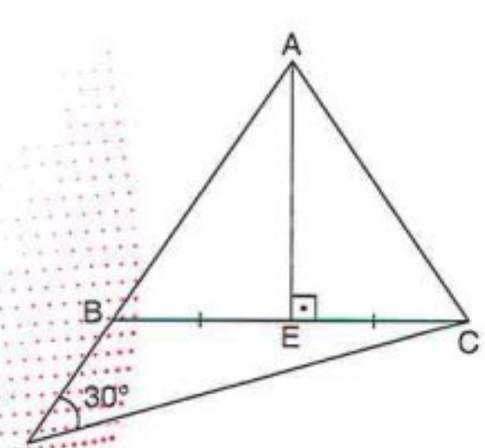


$m(\widehat{ABD}) = m(\widehat{DBC})$
$|AE| = |EC|$
$|AB| = |CD|$
$m(\widehat{CAB}) = 50°$

$\Rightarrow m(\widehat{BDC}) = ?$

A) 30° B) 40° C) 50° D) 60° E) 70°

12.



$[AE] \perp [BC]$
$|BE| = |EC|$
$m(\widehat{BCD}) = 20°$
$m(\widehat{ADC}) = 30°$

$\Rightarrow m(\widehat{EAC}) = ?$

A) 25° B) 30° C) 40° D) 50° E) 60°

1. C	2. C	3. D	4. A	5. C	6. C
7. C	8. D	9. A	10. D	11. B	12. C

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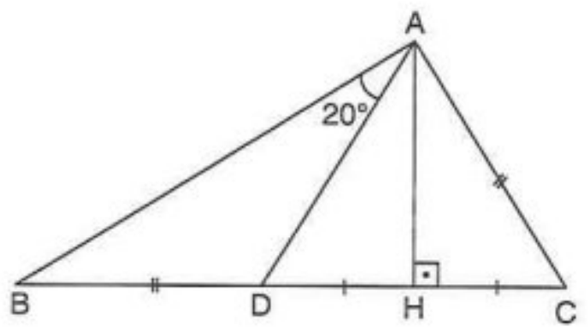
الممسوحة ضوئيا بـ CamScanner

1.

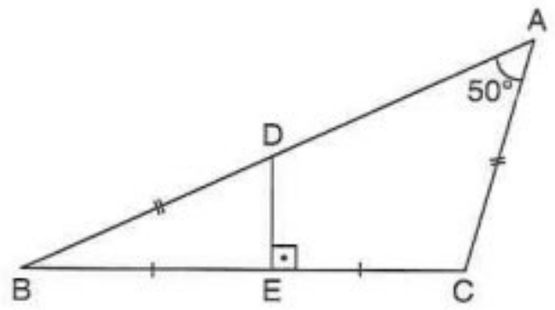


$[AH] \perp [BC]$
$|AC| = |BD|$
$|DH| = |HC|$
$m(\widehat{BAD}) = 20°$

$\Rightarrow$ **$m(\widehat{ACB}) = ?$**

A) 10° B) 20° C) 30° D) 40° E) 50°

2.

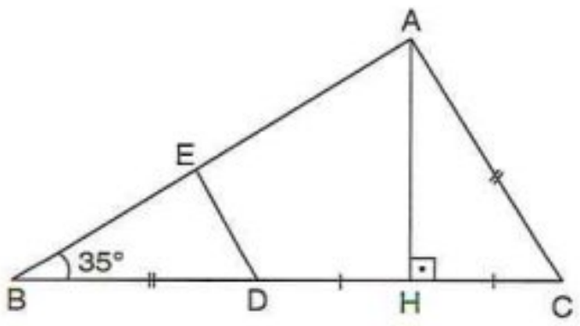


$[DE] \perp [BC]$
$|BE| = |EC|$
$|BD| = |AC|$
$m(\widehat{BAC}) = 50°$

$\Rightarrow$ **$m(\widehat{BDE}) = ?$**

A) 50° B) 55° C) 60° D) 65° E) 70°

3.

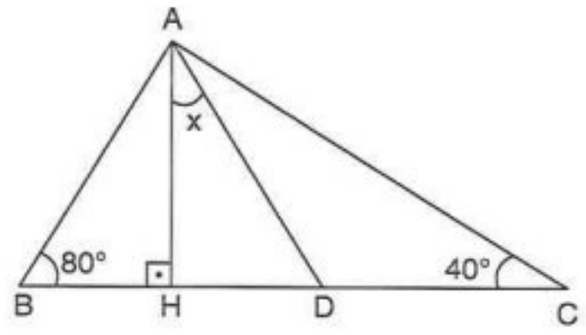


$[AH] \perp [BC]$
$|AC| = |BD|$
$|DH| = |HC|$
$|BE| = |EA|$
$m(\widehat{ABC}) = 35°$

$\Rightarrow$ **$m(\widehat{HAC}) = ?$**

A) 10° B) 20° C) 30° D) 40° E) 50°

4.

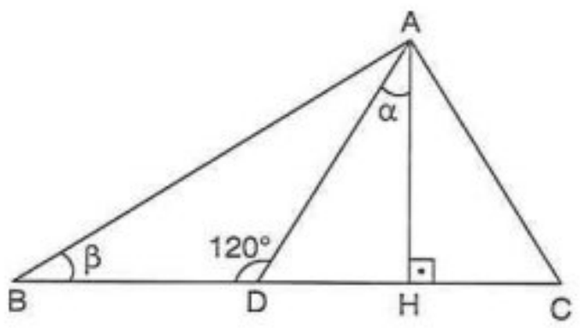


$[AH] \perp [BC]$
$m(\widehat{BAD}) = m(\widehat{DAC})$
$m(\widehat{ABC}) = 80°$
$m(\widehat{BCA}) = 40°$

$\Rightarrow$ **$m(\widehat{HAD}) = x = ?$**

A) 10° B) 20° C) 30° D) 40° E) 50°

5.

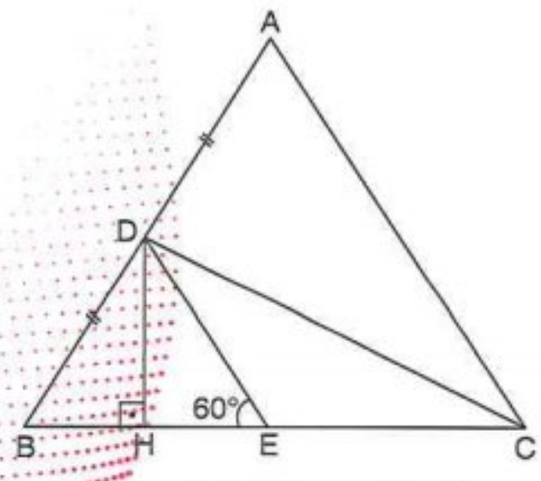


$[AH] \perp [BC]$
$m(\widehat{BAD}) = m(\widehat{DAC})$
$m(\widehat{BDA}) = 120°$
$m(\widehat{ACB}) = 70°$

$\Rightarrow$ **$\alpha + \beta = ?$**

A) 15° B) 25° C) 40° D) 55° E) 75°

6.



$[DH] \perp [BC]$
$|AC| = |BC|$
$m(\widehat{BDE}) = m(\widehat{EDC})$
$m(\widehat{DEB}) = 60°$

$\Rightarrow$ **$m(\widehat{BAC}) = ?$**

A) 60° B) 65° C) 70° D) 75° E) 80°

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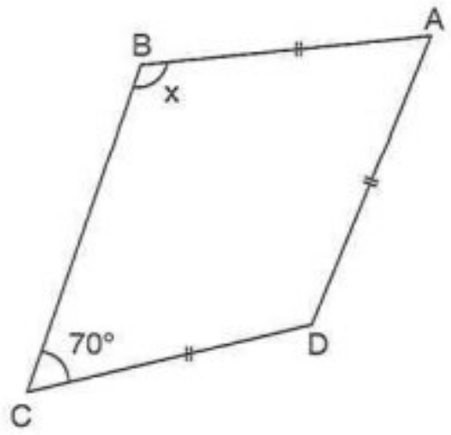
الممسوحة ضوئيا بـ CamScanner

7.

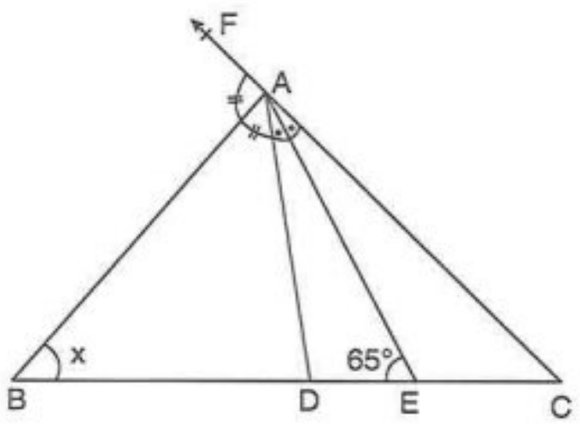


$|AB| = |AD| = |DC|$
$m(\widehat{BAD}) = 60°$
$m(\widehat{BCD}) = 70°$

⇒ $m(\widehat{ABC}) = x = ?$

A) 60° B) 70° C) 90° D) 110° E) 130°

8.

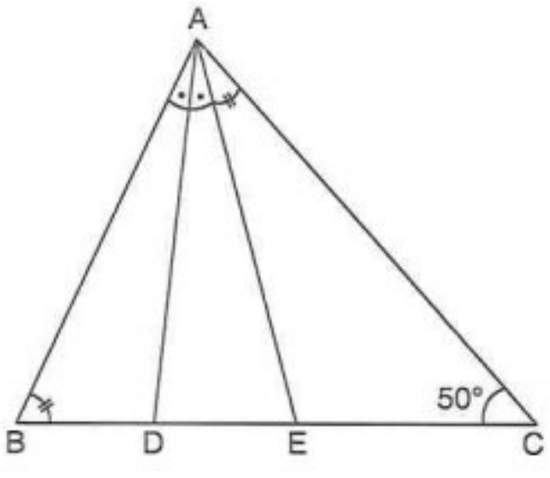


$m(\widehat{FAB}) = m(\widehat{BAD})$
$m(\widehat{DAE}) = m(\widehat{EAC})$
$m(\widehat{BEA}) = 65°$

⇒ $m(\widehat{ABC}) = x = ?$

A) 15° B) 25° C) 35° D) 45° E) 55°

9.

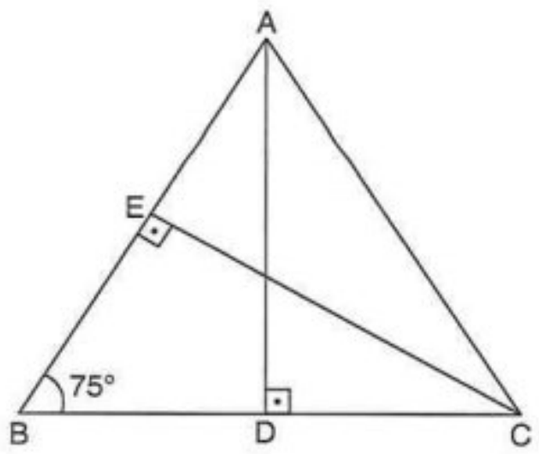


$m(\widehat{BAD}) = m(\widehat{DAE})$
$m(\widehat{ABC}) = m(\widehat{EAC})$
$m(\widehat{ACB}) = 50°$

⇒ $m(\widehat{BDA}) = ?$

A) 65° B) 75° C) 90° D) 100° E) 115°

10.

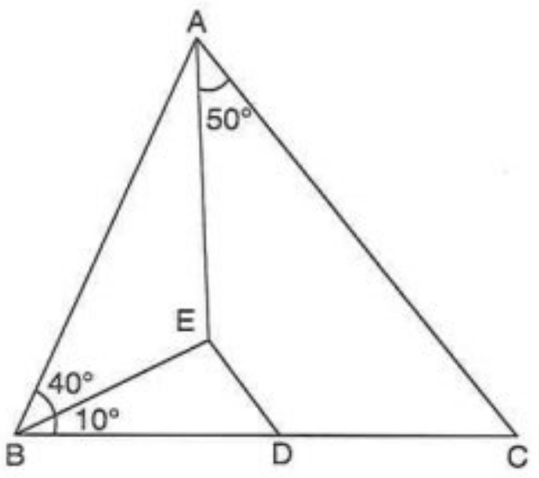


$[AD] \perp [BC]$
$[CE] \perp [AB]$
$m(\widehat{ABC}) = 75°$
$m(\widehat{ECA}) = 15°$

⇒ $m(\widehat{DAC}) = x = ?$

A) 45° B) 50° C) 55° D) 60° E) 65°

11.

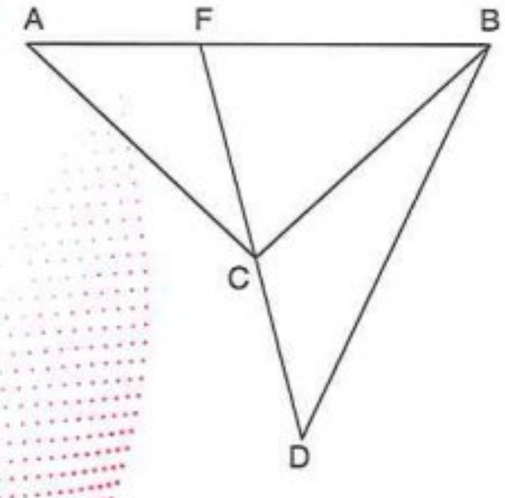


$[ED] \parallel [AC]$
$|BD| = |DC|$
$m(\widehat{EAC}) = 50°$
$m(\widehat{ABE}) = 40°$
$m(\widehat{ACB}) = 30°$
$m(\widehat{EBC}) = 10°$

⇒ $m(\widehat{BED}) = ?$

A) 110° B) 120° C) 130° D) 140° E) 145°

12.



$|FD| = |BD|$
$|AC| = |BC|$
$m(\widehat{ACF}) = 25°$

⇒ $m(\widehat{CBD}) = ?$

A) 20° B) 25° C) 30° D) 40° E) 50°

1. D	2. D	3. B	4. B	5. C	6. D
7. E	8. B	9. E	10. D	11. D	12. B

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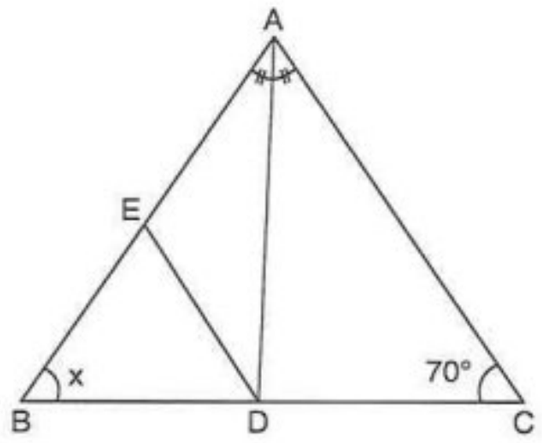
1.

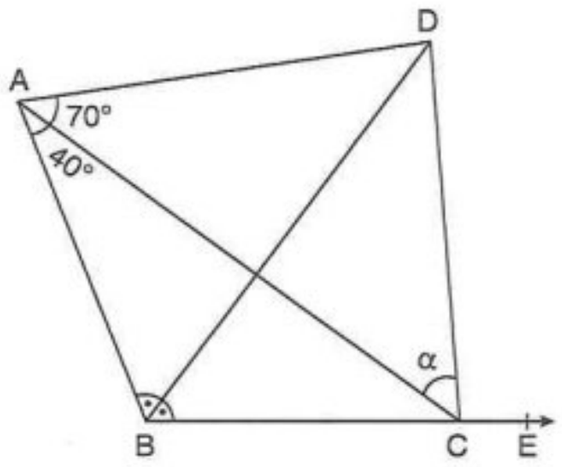


$m(\widehat{BAD}) = m(\widehat{DAC})$
$|AE| = |ED|$
$|BE| = |BD|$
$m(\widehat{ACB}) = 70°$

⇒ $\mathbf{m(\widehat{ABC}) = x = ?}$

A) 20° B) 30° C) 40° D) 50° E) 70°

2.

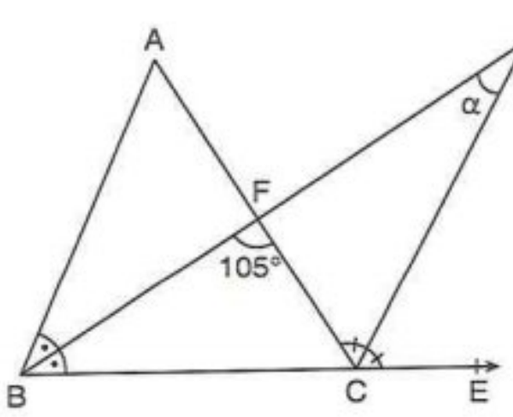


$m(\widehat{ABD}) = m(\widehat{DBE})$
$m(\widehat{BAC}) = 40°$
$m(\widehat{CAD}) = 70°$
$m(\widehat{ADB}) = 25°$

⇒ $\mathbf{m(\widehat{ACD}) = \alpha = ?}$

A) 45° B) 55° C) 65° D) 75° E) 90°

3.

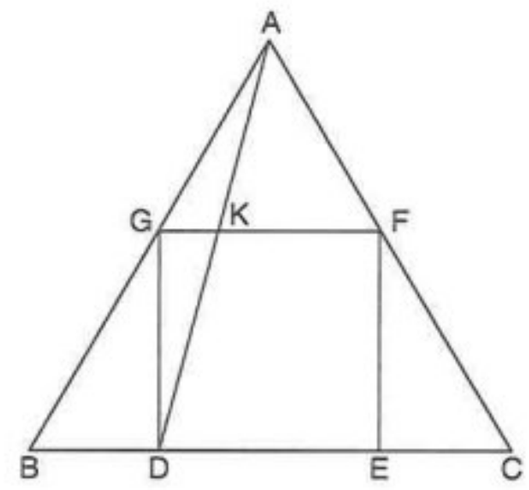


[BD] ve [CD] açıortay (*bisector*)
$|AC| = |BC|$
$m(\widehat{BFC}) = 105°$

⇒ $\mathbf{m(\widehat{BDC}) = \alpha = ?}$

A) 29° B) 31° C) 35° D) 47° E) 59°

4.

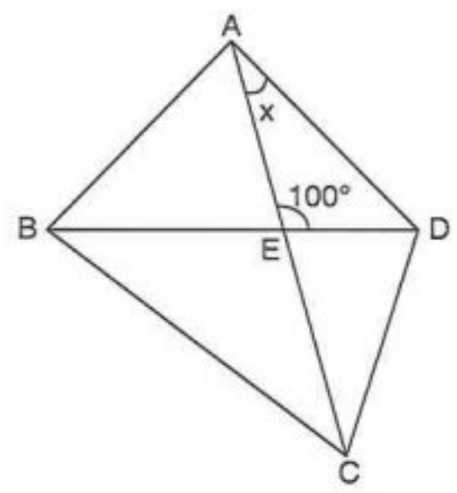


ABC eşkenar üçgen,
ABC, equilateral triangle
DEFG, kare (*square*)

⇒ $\mathbf{m(\widehat{GKD}) = ?}$

A) 15° B) 30° C) 45° D) 60° E) 75°

5.

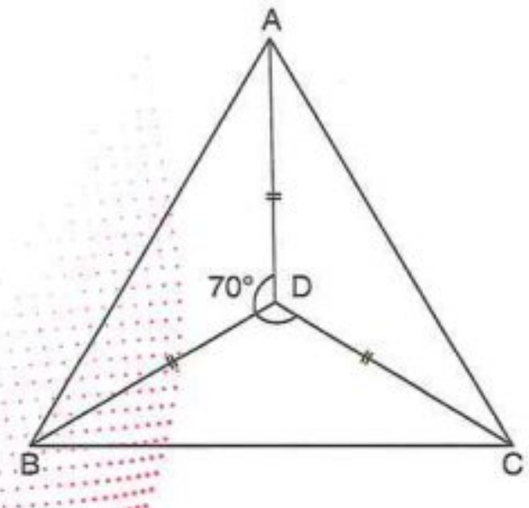


ABC eşkenar üçgen
ABC, equilateral triangle
$|AB| = |CD|$

⇒ $\mathbf{m(\widehat{CAD}) = x = ?}$

A) 30° B) 35° C) 40° D) 45° E) 50°

6.



$\frac{m(\widehat{DAC})}{m(\widehat{DCB})} = \frac{2}{5}$
$m(\widehat{ADB}) = 70°$

⇒ $\mathbf{m(\widehat{BDC}) = x = ?}$

A) 130° B) 125° C) 120° D) 110° E)100°

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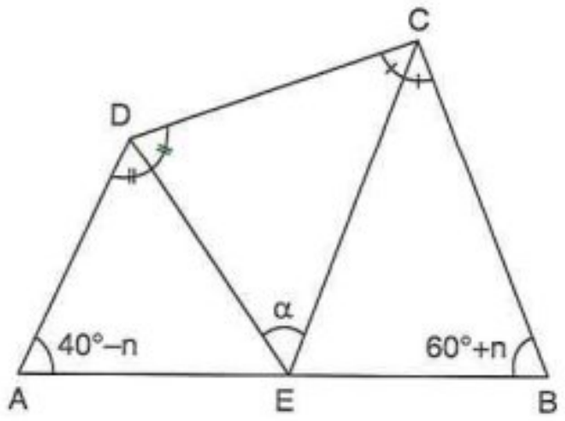
7.

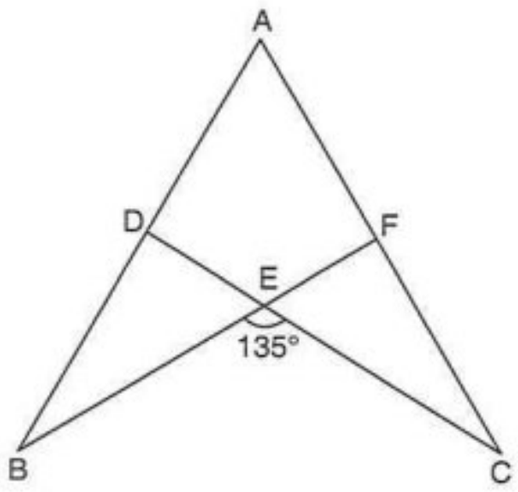


$m(\widehat{ADE}) = m(\widehat{EDC})$
$m(\widehat{DCE}) = m(\widehat{ECB})$
$m(\widehat{ABC}) = 60 + n$

⇒ $m(\widehat{DEC}) = \alpha = ?$

A) 30° B) 40° C) 50° D) 60° E) 70°

8.

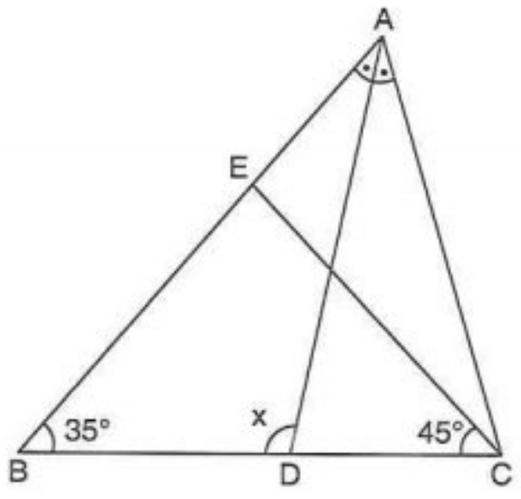


$|AB| = |BF|$
$|AC| = |DC|$
$m(\widehat{BEC}) = 135°$

⇒ $m(\widehat{ABF}) = ?$

A) 28° B) 30° C) 32° D) 42° E) 48°

9.

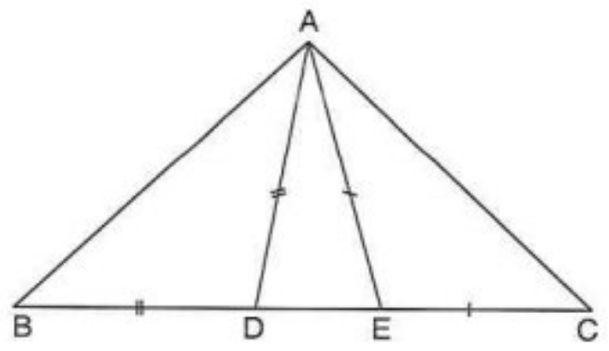


$|EA| = |EC|$
$m(\widehat{BAD}) = m(\widehat{DAC})$
$m(\widehat{ABC}) = 35°$
$m(\widehat{ECB}) = 45°$

⇒ $m(\widehat{BDA}) = x = ?$

A) 100° B) 105° C) 110° D) 115° E) 120°

10.

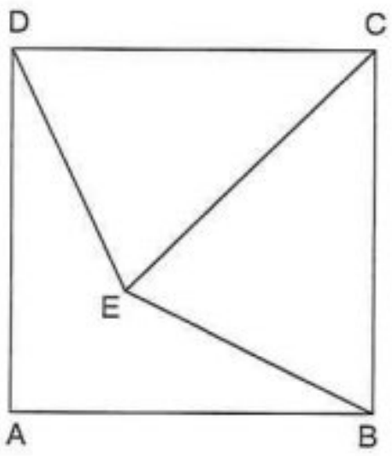


$|AD| = |DB|$
$|AE| = |EC|$
$m(\widehat{DAE}) = 26°$

⇒ $m(\widehat{BAC}) = ?$

A) 103° B) 105° C) 110° D) 115° E) 120°

11.

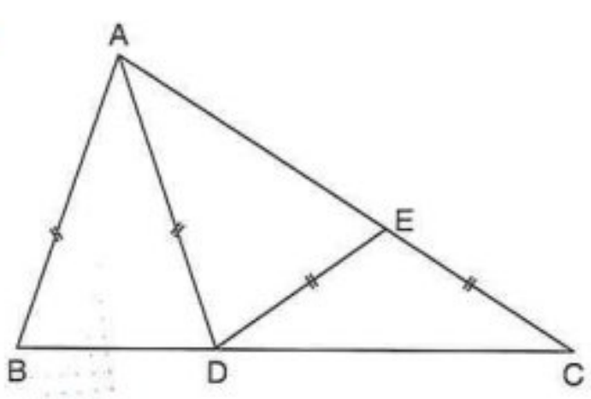


ABCD kare (*square*)
$|AD| = |EC|$
$m(\widehat{ADE}) = 20°$

⇒ $m(\widehat{ABE}) = ?$

A) 20° B) 25° C) 30° D) 35° E) 40°

12.



$|AB| = |AD| = |DE| = |EC|$
$|AC| = |BC|$

⇒ $m(\widehat{ACB}) = ?$

A) $\frac{170}{7}$ B) 23 C) $\frac{180}{7}$ D) 25 E) $\frac{187}{7}$

1. C	2. C	3. C	4. E	5. E	6. A
7. C	8. B	9. E	10. A	11. B	12. C

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DİK ÜÇGEN
RIGHT TRIANGLE

KONU KAVRAMA TESTİ
Thread Grip Test

ZİHİN HARİTASI
Mind Map

9
TEST
Tests

168
SORU
Questions

CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS

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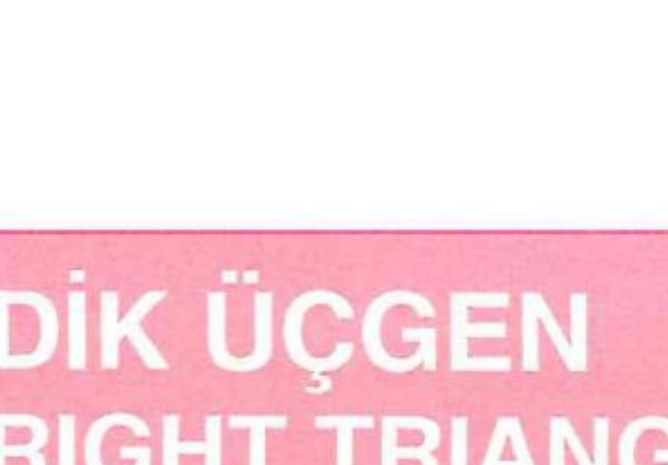
DİK ÜÇGEN
RIGHT TRIANGLE

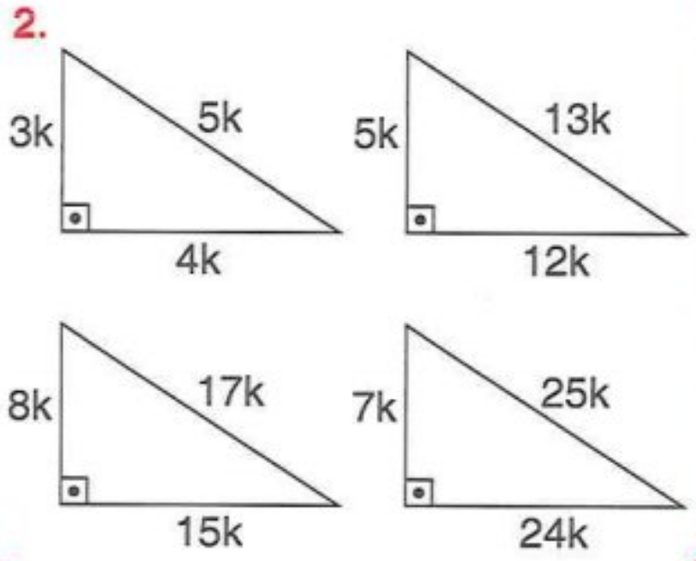
CANER eğitim kurumları

1. Pisagor Bağıntısı

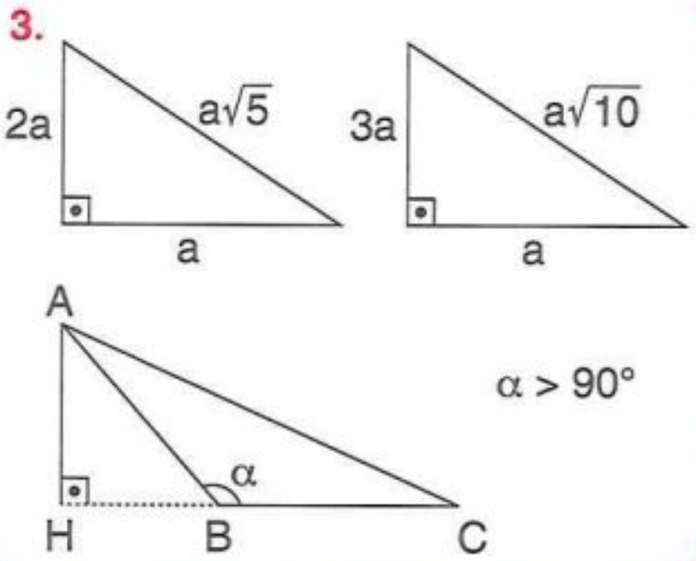


$$a^2 = b^2 + c^2$$

2.

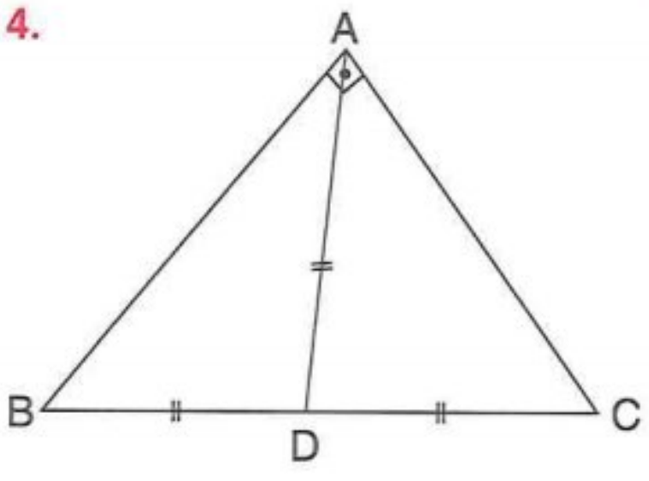


3.



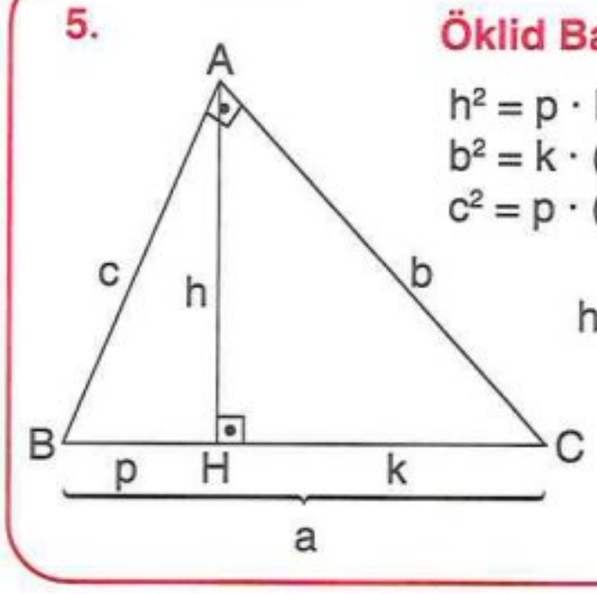
$\alpha > 90°$

4.



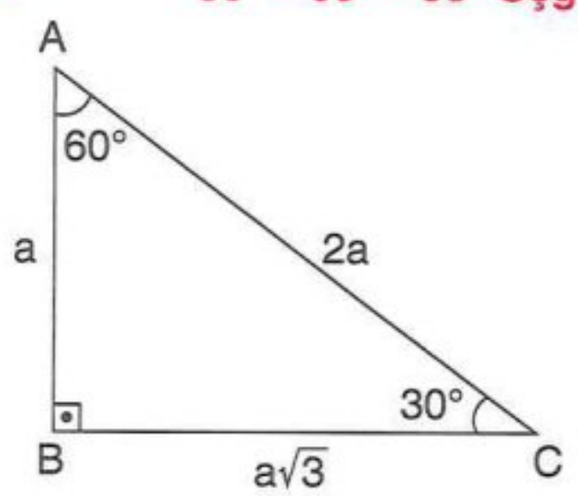
$|BD| = |DC| = |AD|$

5. Öklid Bağıntısı

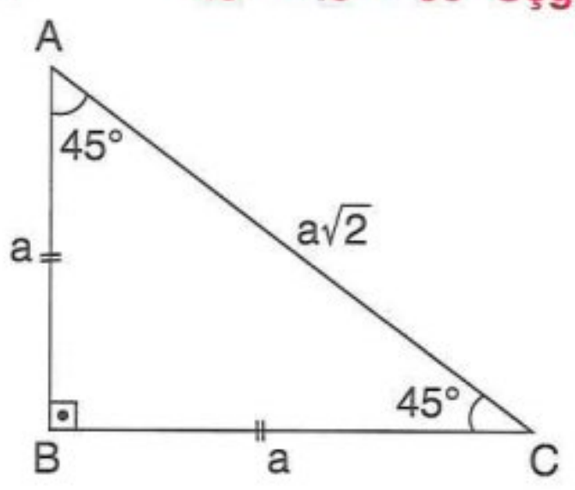


$$h^2 = p \cdot k$$
$$b^2 = k \cdot (p + k)$$
$$c^2 = p \cdot (p + k)$$
$$h = \frac{b \cdot c}{a}$$

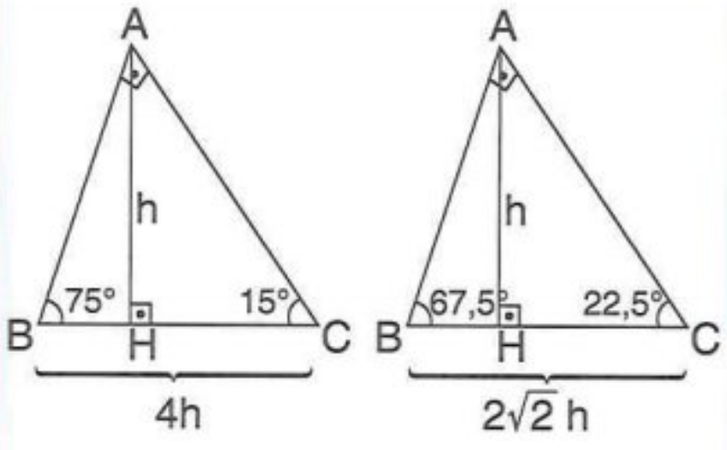
6. 30° – 60° – 90° Üçgeni



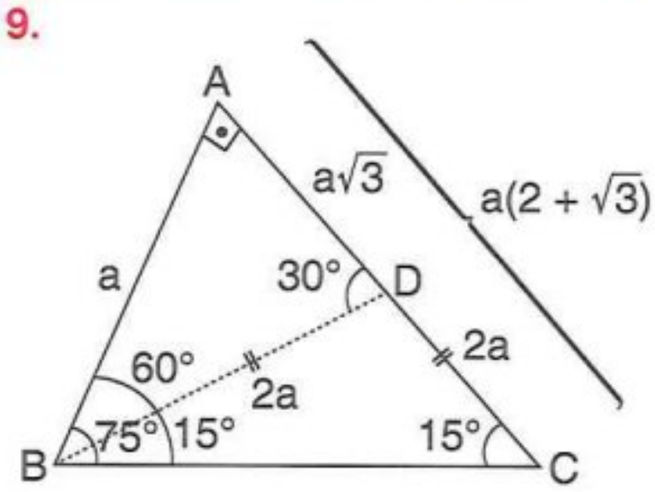
7. 45° – 45° – 90° Üçgeni



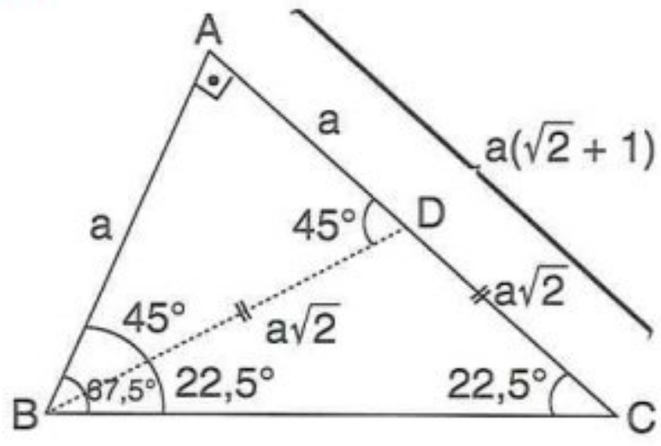
8.



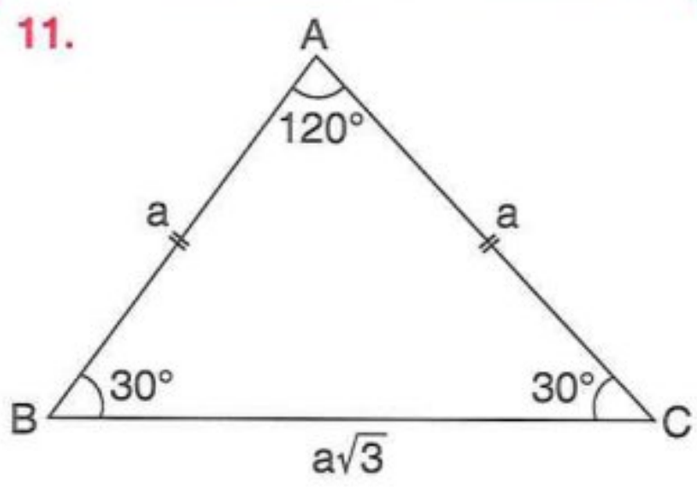
9.



10.



11.



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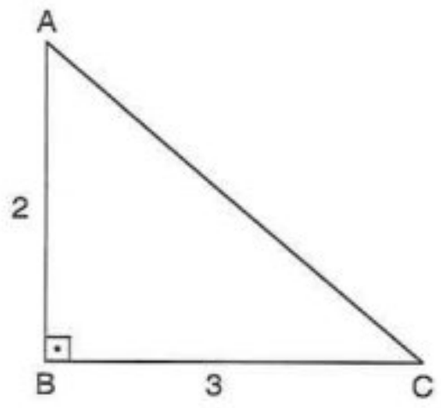
1.

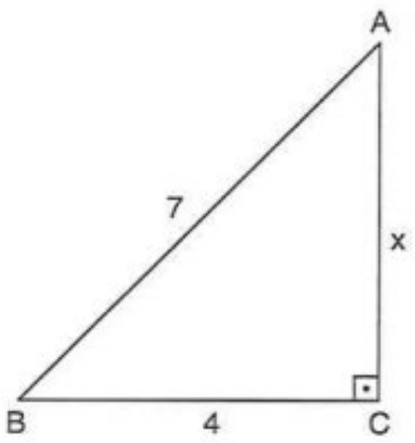


$[AB] \perp [BC]$
$|AB| = 2$ br
$|BC| = 3$ br

$\Rightarrow |\mathbf{AC}| = ?$

A) $2\sqrt{3}$ B) $\sqrt{13}$ C) 4 D) $\sqrt{17}$ E) $3\sqrt{2}$

2.

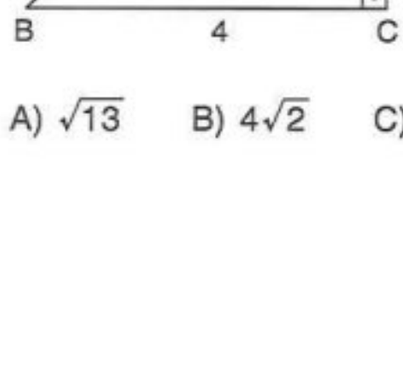


$[AC] \perp [BC]$
$|AB| = 7$ br
$|BC| = 4$ br

$\Rightarrow |\mathbf{AC}| = \mathbf{x} = ?$

A) $\sqrt{13}$ B) $4\sqrt{2}$ C) $\sqrt{33}$ D) 6 E) $4\sqrt{3}$

3.

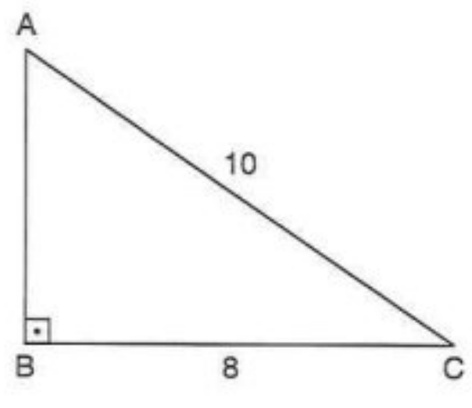


$[AB] \perp [BC]$
$|BC| = 2|AB| = 2$ br

$\Rightarrow |\mathbf{AC}| = ?$

A) $\sqrt{5}$ B) $\sqrt{6}$ C) $2\sqrt{2}$ D) 4 E) $2\sqrt{5}$

4.

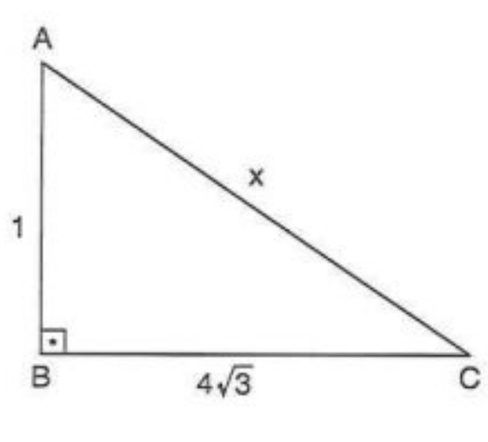


$[AB] \perp [BC]$
$|AC| = 10$ br
$|BC| = 8$ br

$\Rightarrow |\mathbf{AB}| = \mathbf{x} = ?$

A) 4 B) 5 C) 6 D) 7 E) 8

5.

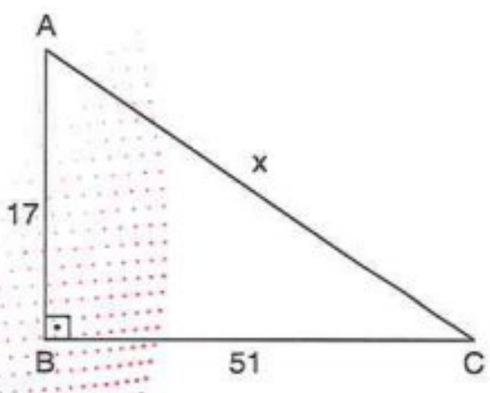


$[AB] \perp [BC]$
$|BC| = 4\sqrt{3}$ br
$|AB| = 1$ br

$\Rightarrow |\mathbf{AC}| = \mathbf{x} = ?$

A) 3 B) 4 C) 5 D) 6 E) 7

6.



$[AB] \perp [BC]$
$|AB| = 17$ br
$|BC| = 51$ br

$\Rightarrow |\mathbf{AC}| = \mathbf{x} = ?$

A) 13 B) $17\sqrt{3}$ C) $17\sqrt{10}$ D) 54 E) 57

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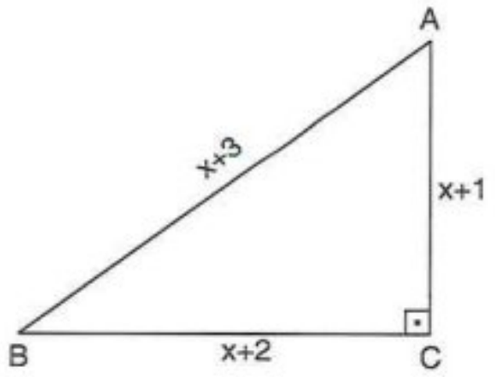
7.

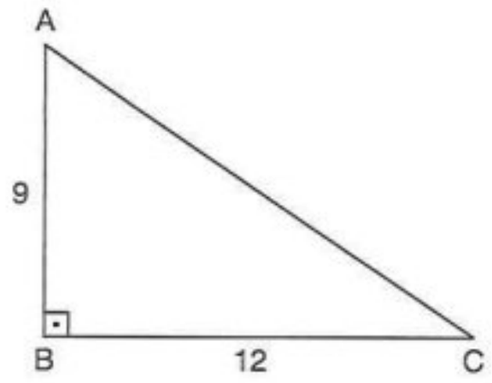


$[AC] \perp [BC]$
$|AB| = (x+3)\,br$
$|BC| = (x+2)\,br$
$|AC| = (x+1)\,br$

$\Rightarrow$ **x = ?**

A) 2 B) 3 C) 4 D) 5 E) 6

8.

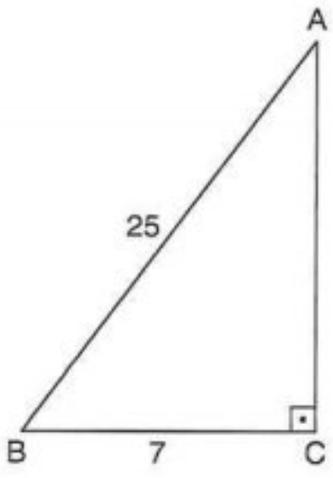


$[AB] \perp [BC]$
$|AB| = 9\,br$
$|BC| = 12\,br$

$\Rightarrow$ $|\mathbf{AC}| = \mathbf{x} = ?$

A) 9 B) 10 C) 11 D) 12 E) 15

9.

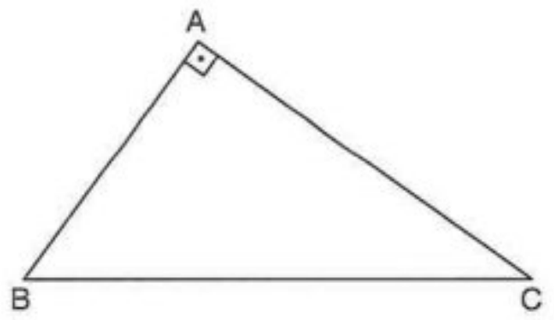


$[AC] \perp [BC]$
$|AB| = 25\,br$
$|BC| = 7\,br$

$\Rightarrow$ $|\mathbf{AC}| = \mathbf{x} = ?$

A) 18 B) 20 C) 21 D) 22 E) 24

10.

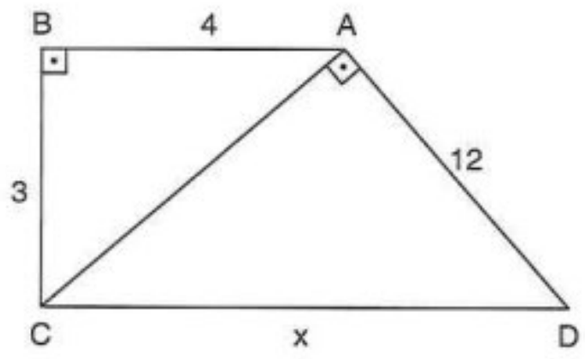


$[AB] \perp [AC]$
$|AB| = 8\,br$
$|AC| = 15\,br$

$\Rightarrow$ $|\mathbf{BC}| = ?$

A) 20 B) 19 C) 18 D) 17 E) 16

11.

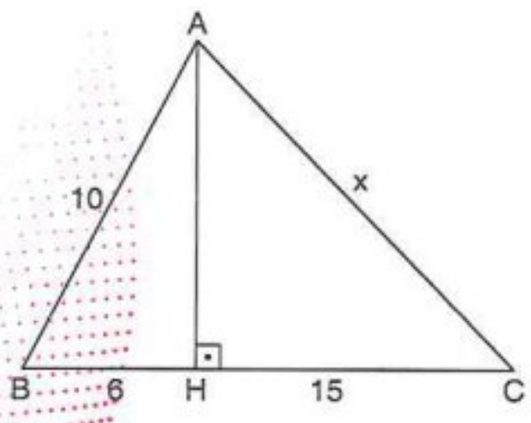


$[AB] \perp [BC]$
$[AC] \perp [AD]$
$|AB| = 4\,br$
$|BC| = 3\,br$
$|AD| = 12\,br$

$\Rightarrow$ $|\mathbf{DC}| = \mathbf{x} = ?$

A) 13 B) 14 C) 15 D) 16 E) 17

12.



$[AH] \perp [BC]$
$|AB| = 10\,br$
$|BH| = 6\,br$
$|HC| = 15\,br$

$\Rightarrow$ $|\mathbf{AC}| = \mathbf{x} = ?$

A) 20 B) 19 C) 18 D) 17 E) 16

1. B	2. C	3. A	4. C	5. E	6. C
7. A	8. E	9. E	10. D	11. A	12. D

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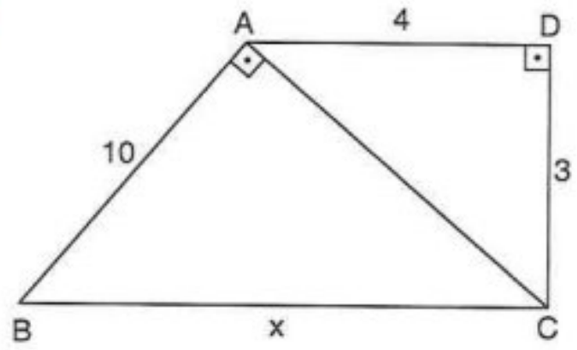
13.

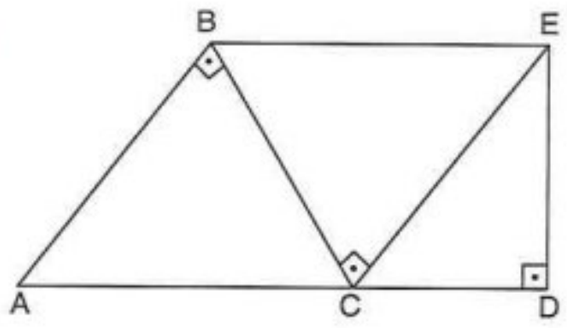


$[AB] \perp [AC]$
$[AD] \perp [DC]$
$|AB| = 10$ br
$|AD| = 4$ br
$|DC| = 3$ br

⇒ $|BC| = x = ?$

A) 11 B) 12 C) $5\sqrt{5}$ D) $5\sqrt{7}$ E) $10\sqrt{2}$

14.

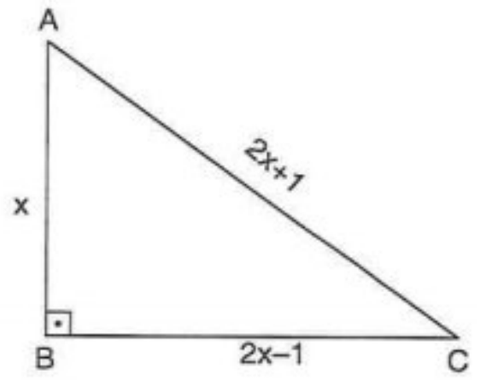


$[AB] \perp [BC]$
$[BC] \perp [CE]$
$[CD] \perp [DE]$
$|CE| = (a-1)$ br
$|DE| = (a-2)$ br
$|CD| = (a-3)$ br
$|BE| = 13$ br
$|AB| = 16$ br

⇒ $|AC| = ?$

A) 17 B) 18 C) 20 D) 24 E) 25

15.

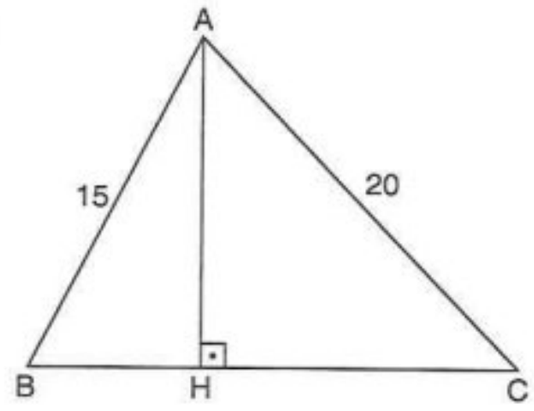


$[AB] \perp [BC]$
$|AB| = x$ br
$|BC| = (2x-1)$ br
$|AC| = (2x+1)$ br

⇒ $x = ?$

A) 5 B) 6 C) 7 D) 8 E) 9

16.

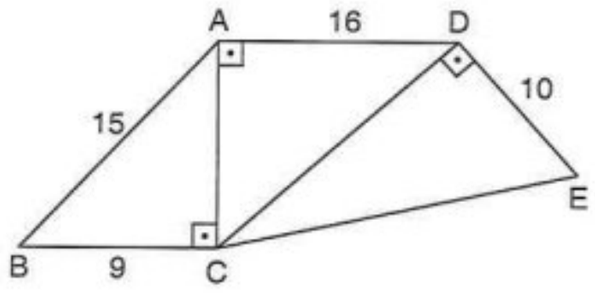


$[AH] \perp [BC]$
$|AB| = 15$ br
$|AC| = 20$ br
$|BC| = 25$ br

⇒ $|AH| = ?$

A) 8 B) 9 C) 10 D) 11 E) 12

17.

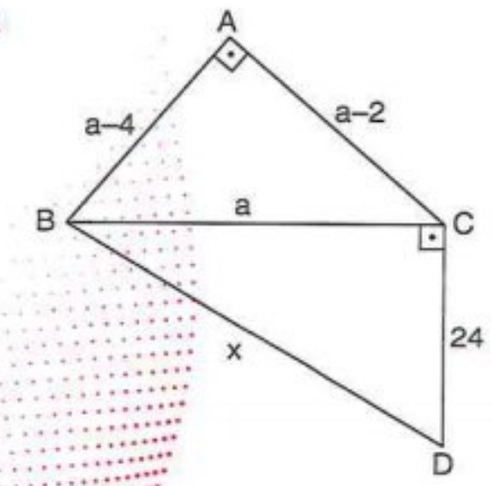


$[AC] \perp [BC]$
$[AC] \perp [AD]$
$[CD] \perp [DE]$
$|AD| = 16$ br
$|AB| = 15$ br
$|DE| = 10$ br
$|BC| = 9$ br

⇒ $|CE| = ?$

A) 24 B) $10\sqrt{5}$ C) 25 D) $20\sqrt{2}$ E) $20\sqrt{5}$

18.



$[AB] \perp [AC]$
$[BC] \perp [CD]$
$|AB| = (a-4)$ br
$|AC| = (a-2)$ br
$|BC| = a$ br
$|CD| = 24$ br

⇒ $|BD| = x = ?$

A) 26 B) 30 C) 36 D) 38 E) 40

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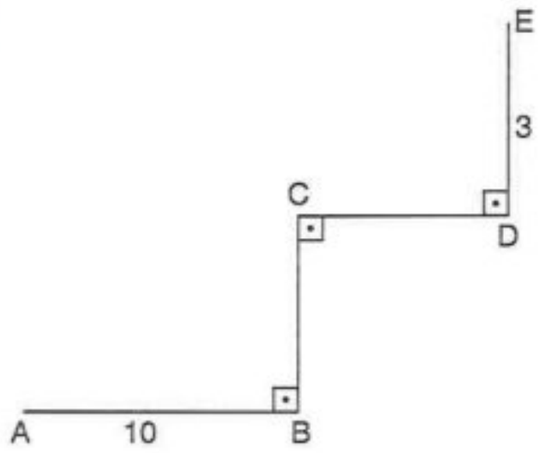
19.

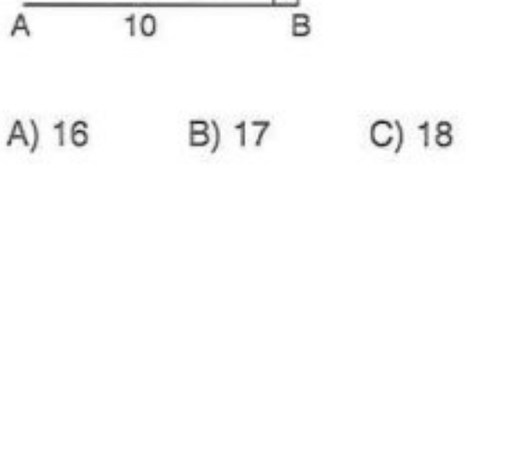


$[AB] \perp [BC]$
$[BC] \perp [CD]$
$[CD] \perp [ED]$
$|AB| = 2|BC| = 10$
$|CD| = 5$ br
$|ED| = 3$ br

$\Rightarrow$ $|\mathbf{AE}| = ?$

A) 16 B) 17 C) 18 D) 19 E) 20

20.

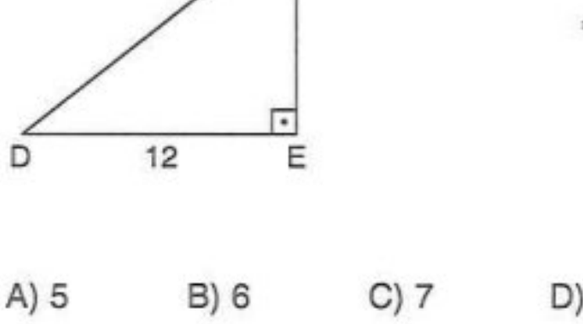


$[AB] \perp [AE]$
$[AE] \perp [DE]$
$|AB| = |DE| = 12$ br
$|BD| = 25$ br

$\Rightarrow$ $|\mathbf{AE}| = ?$

A) 5 B) 6 C) 7 D) 8 E) 9

21.

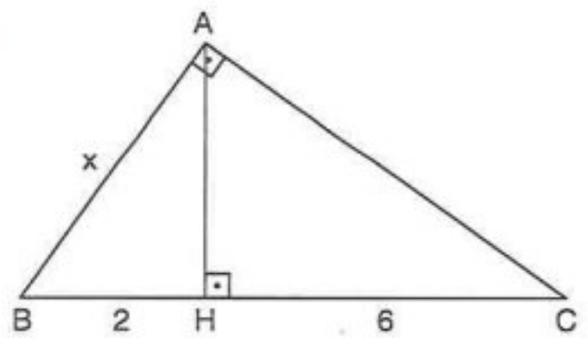


$[AB] \perp [AC]$
$[AH] \perp [BC]$
$|HC| = 20$ br
$|BH| = 5$ br

$\Rightarrow$ $|\mathbf{AH}| = ?$

A) 5 B) 6 C) 8 D) 10 E) 15

22.

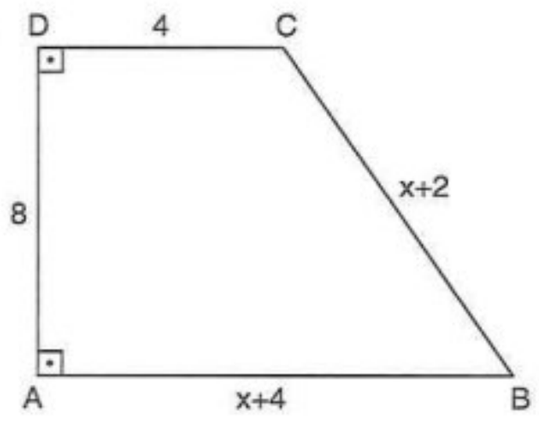


$[AB] \perp [AC]$
$[AH] \perp [BC]$
$|BH| = 2$ br
$|HC| = 6$ br

$\Rightarrow$ $|\mathbf{AB}| = \mathbf{x} = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

23.

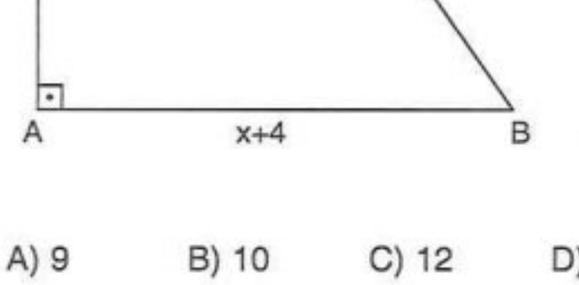


$[AB] \perp [AD]$
$[AD] \perp [DC]$
$|AB| = (x+4)$ br
$|BC| = (x+2)$ br
$|DC| = 4$ br
$|AD| = 8$ br

$\Rightarrow$ $\mathbf{x} = ?$

A) 9 B) 10 C) 12 D) 15 E) 17

24.



ABCD dikdörtgen
ABCD, rectangle

$[AE] \perp [EB]$
$|DE| = 4$ br
$|EC| = 9$ br

$\Rightarrow$ $|\mathbf{BC}| = \mathbf{x} = ?$

A) 4 B) 6 C) 8 D) 10 E) 12

13. C	14. C	15. D	16. E	17. B	18. A
19. B	20. C	21. D	22. C	23. D	24. B

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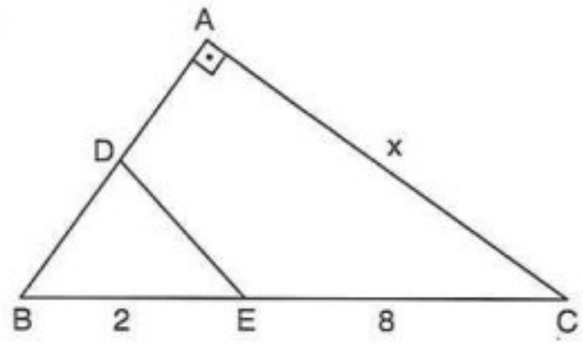
25.

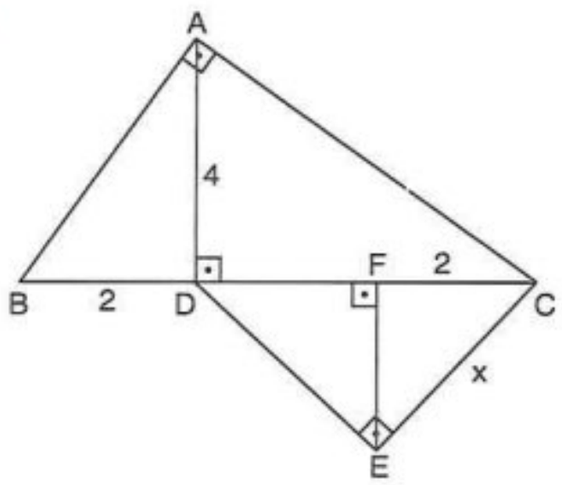


$[AB] \perp [AC]$
$|AD| = |DB| = |ED|$
$|BE| = 2\,br$
$|EC| = 8\,br$

$\Rightarrow$ $|\mathbf{AC}| = \mathbf{x} = ?$

A) 4 B) $4\sqrt{2}$ C) $4\sqrt{3}$ D) $4\sqrt{5}$ E) 8

26.

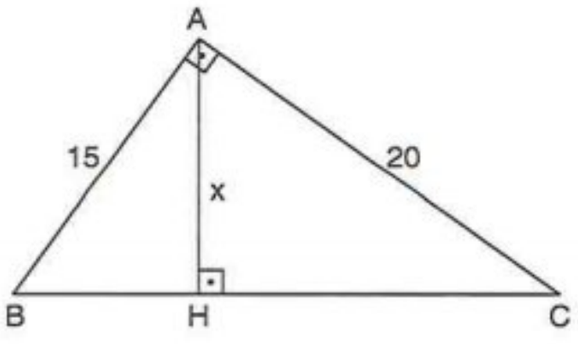


$[AB] \perp [AC]$
$[AD] \perp [BC]$
$[DE] \perp [EC]$
$[EF] \perp [BC]$
$|AD| = 4\,br$
$|BD| = |FC| = 2\,br$

$\Rightarrow$ $|\mathbf{EC}| = \mathbf{x} = ?$

A) 3 B) 4 C) 5 D) 6 E) 8

27.

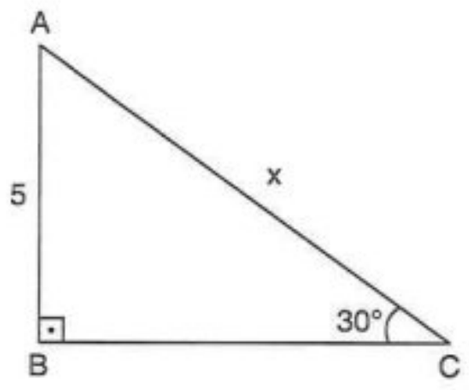


$[AB] \perp [AC]$
$[AH] \perp [BC]$
$|AB| = 15\,br$
$|AC| = 20\,br$

$\Rightarrow$ $|\mathbf{AH}| = \mathbf{x} = ?$

A) 6 B) 8 C) 9 D) 10 E) 12

28.

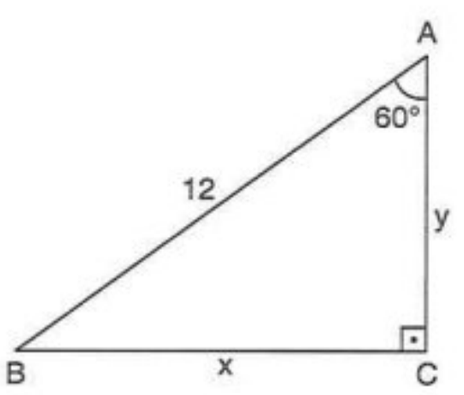


$[AB] \perp [BC]$
$m(\widehat{BCA}) = 30°$
$|AB| = 5\,br$

$\Rightarrow$ $|\mathbf{AC}| = \mathbf{x} = ?$

A) 6 B) 7 C) 8 D) 9 E) 10

29.

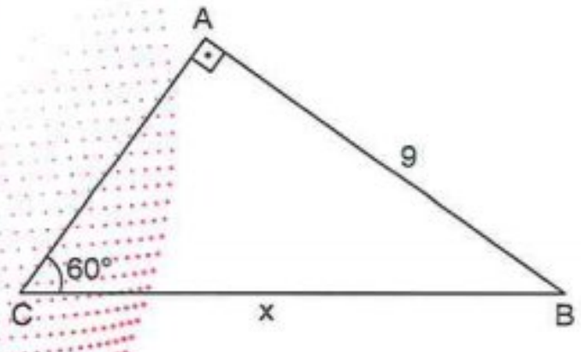


$[AC] \perp [BC]$
$m(\widehat{BAC}) = 60°$
$|AB| = 12\,br$
$|BC| = x\,br$
$|AC| = y\,br$

$\Rightarrow$ $\mathbf{x.y} = ?$

A) 18 B) 36 C) 48 D) $18\sqrt{3}$ E) $36\sqrt{3}$

30.



$[AB] \perp [AC]$
$m(\widehat{ACB}) = 60°$
$|AB| = 9\,br$

$\Rightarrow$ $|\mathbf{BC}| = \mathbf{x} = ?$

A) 10 B) $6\sqrt{3}$ C) 12 D) $6\sqrt{5}$ E) $12\sqrt{3}$

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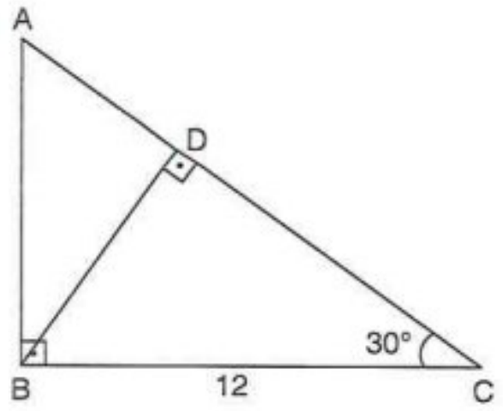
31.

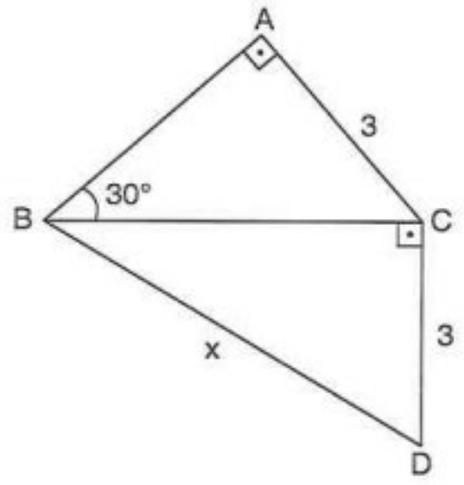


$[AB] \perp [BC]$
$[BD] \perp [AC]$
$m(\widehat{BCA}) = 30°$
$|BC| = 12$ br

⇒ $|AD| = ?$

A) 2 B) $2\sqrt{3}$ C) $4\sqrt{3}$ D) 6 E) $6\sqrt{3}$

32.

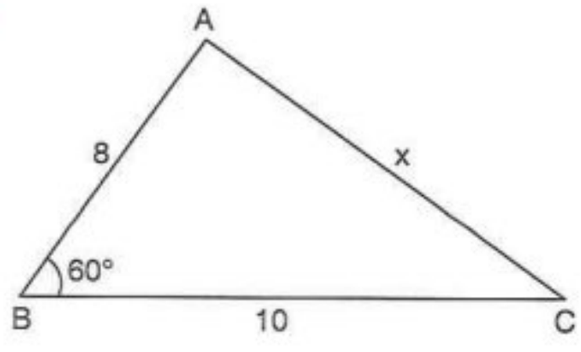


$[AB] \perp [AC]$
$[BC] \perp [CD]$
$m(\widehat{ABC}) = 30°$
$|AC| = |CD| = 3$ br

⇒ $|BD| = x = ?$

A) 6 B) $3\sqrt{3}$ C) $3\sqrt{5}$ D) $6\sqrt{3}$ E) $6\sqrt{5}$

33.

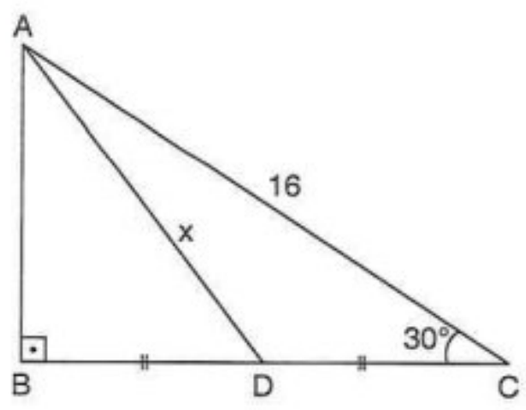


$m(\widehat{ABC}) = 60°$
$|BC| = 10$ br
$|AB| = 8$ br

⇒ $|AC| = x = ?$

A) $2\sqrt{11}$ B) $2\sqrt{17}$ C) $2\sqrt{21}$ D) 17 E) 24

34.

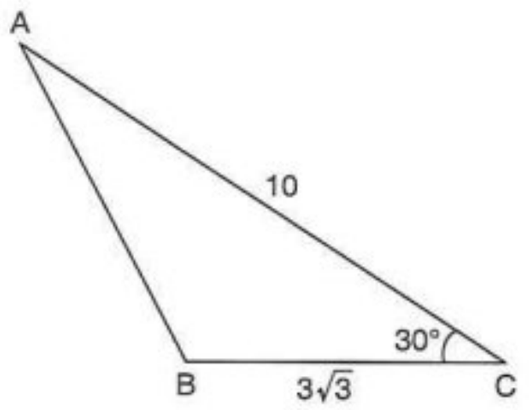


$[AB] \perp [BC]$
$m(\widehat{BCA}) = 30°$
$|BD| = |DC|$
$|AC| = 16$ br

⇒ $|AD| = x = ?$

A) 3 B) 4 C) 5 D) $4\sqrt{5}$ E) $4\sqrt{7}$

35

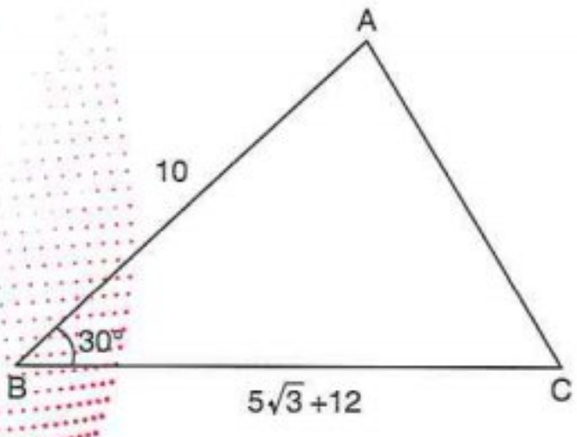


$m(\widehat{BCA}) = 30°$
$|AC| = 10$ br
$|BC| = 3\sqrt{3}$ br

⇒ $|AB| = ?$

A) $2\sqrt{3}$ B) 5 C) $3\sqrt{3}$ D) $\sqrt{35}$ E) $\sqrt{37}$

36.



$m(\widehat{ABC}) = 30°$
$|AB| = 10$ br
$|BC| = (5\sqrt{3} + 12)$ br

⇒ $|AC| = ?$

A) $12\sqrt{3}$ B) $12\sqrt{5}$ C) 13 D) 15 E) 17

25. D	26. B	27. E	28. E	29. E	30. B
31. B	32. C	33. C	34. E	35. E	36. C

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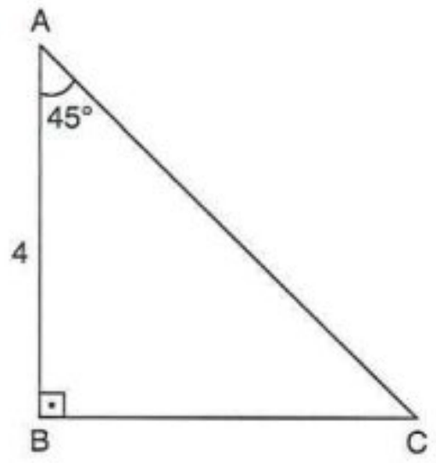
37.

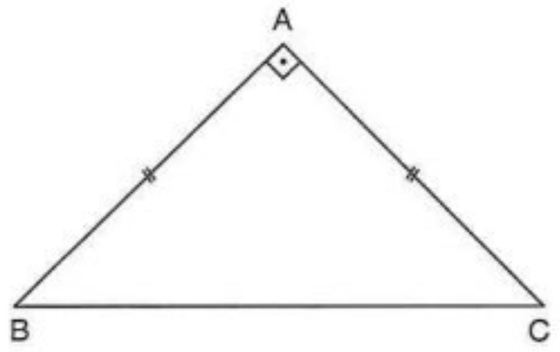


$[AB] \perp [BC]$
$m(\widehat{BAC}) = m(\widehat{BCA}) = 45°$
$|AB| = 4$ br

⇒ $|AC| = ?$

A) $3\sqrt{2}$ B) $2\sqrt{5}$ C) $2\sqrt{6}$ D) $4\sqrt{2}$ E) $4\sqrt{3}$

38.

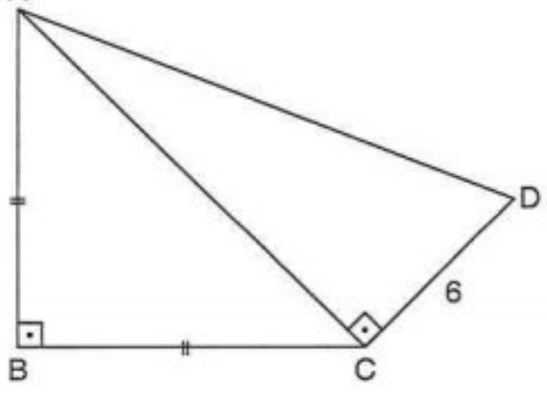


$[AB] \perp [AC]$
$|AB| = |AC|$
$|BC| = 24$ br

⇒ $|AB| = ?$

A) 6 B) $6\sqrt{2}$ C) 12 D) $12\sqrt{2}$ E) 18

39.

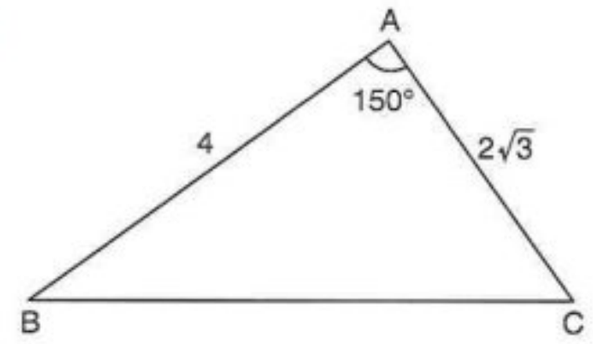


$[AB] \perp [BC]$
$[AC] \perp [CD]$
$|AB| = |BC| = 4\sqrt{2}$ br
$|CD| = 6$ br

⇒ $|AD| = ?$

A) 9 B) 10 C) 11 D) 12 E) 13

40.

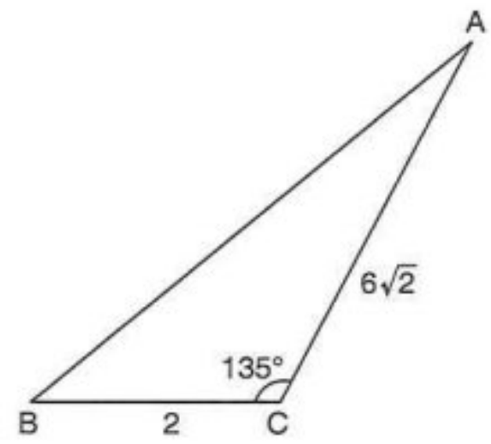


$m(\widehat{BAC}) = 150°$
$|AB| = 4$ br
$|AC| = 2\sqrt{3}$ br

⇒ $|BC| = ?$

A) $4\sqrt{2}$ B) $4\sqrt{3}$ C) 7 D) $2\sqrt{13}$ E) 8

41.

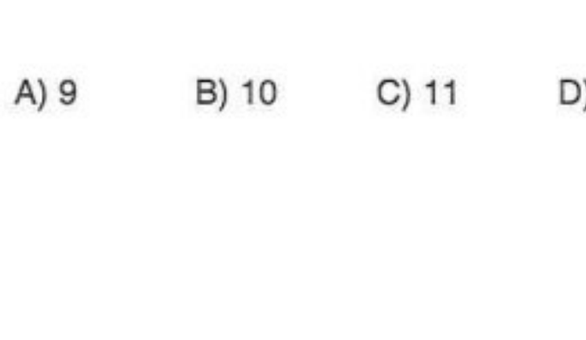


$m(\widehat{BCA}) = 135°$
$|BC| = 2$ br
$|AC| = 6\sqrt{2}$ br

⇒ $|AB| = ?$

A) 9 B) 10 C) 11 D) 12 E) 14

42.



$m(\widehat{BAC}) = 120°$
$|AB| = |AC| = 7$ br

⇒ $|BC| = ?$

A) $7\sqrt{2}$ B) $7\sqrt{3}$ C) 8 D) 14 E) $14\sqrt{2}$

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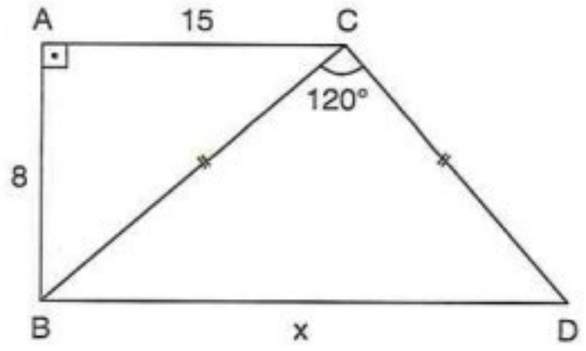
43.

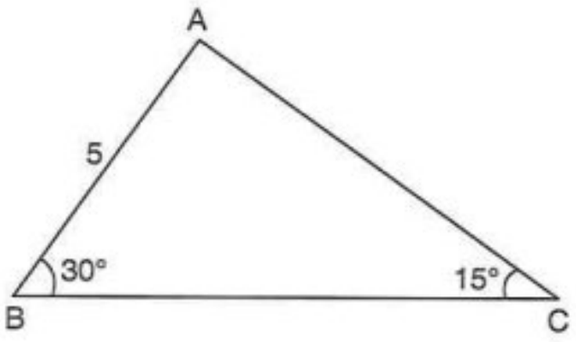


$[AC] \perp [AB]$
$m(\widehat{BCD}) = 120°$
$|BC| = |CD|$
$|AB| = 8\,br$
$|AC| = 15\,br$

$\Rightarrow$ **$|BD| = x = ?$**

A) 17 B) $17\sqrt{2}$ C) $17\sqrt{3}$ D) 34 E) $17\sqrt{5}$

44.

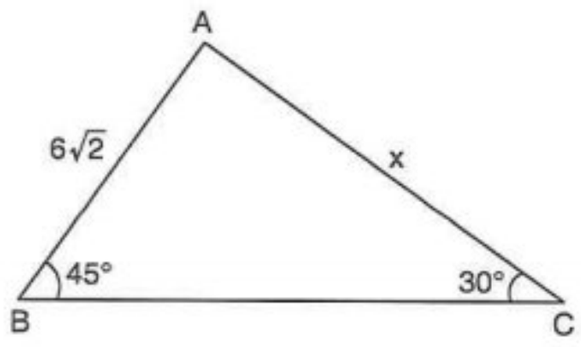


$m(\widehat{ABC}) = 30°$
$m(\widehat{ACB}) = 15°$
$|AB| = 5\,br$

$\Rightarrow$ **$|BC| = ?$**

A) 5 B) $5\sqrt{3}$ C) $5 + 5\sqrt{3}$
D) $10 + 5\sqrt{3}$ E) $10 + 10\sqrt{3}$

45.

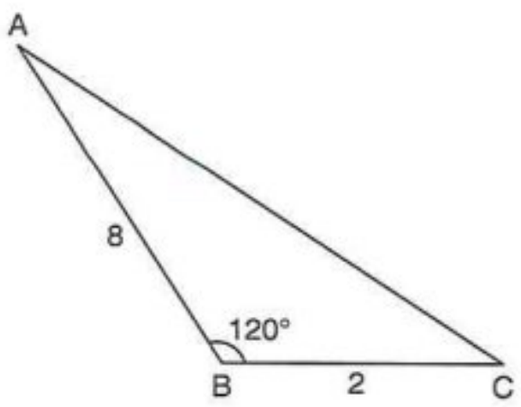


$m(\widehat{ABC}) = 45°$
$m(\widehat{ACB}) = 30°$
$|AB| = 6\sqrt{2}\,br$

$\Rightarrow$ **$|AC| = x = ?$**

A) 6 B) 8 C) 10 D) 12 E) 15

46.

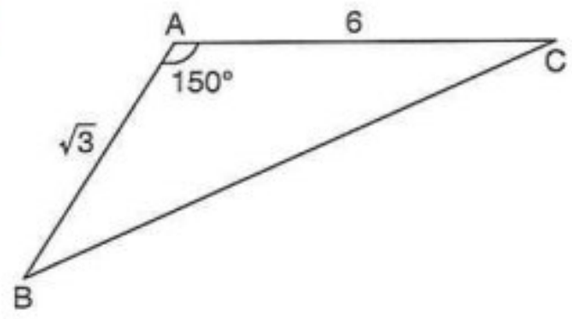


$m(\widehat{ABC}) = 120°$
$|AB| = 8\,br$
$|BC| = 2\,br$

$\Rightarrow$ **$|AC| = ?$**

A) $2\sqrt{21}$ B) $5\sqrt{2}$ C) $3\sqrt{7}$ D) $6\sqrt{3}$ E) $8\sqrt{3}$

47.

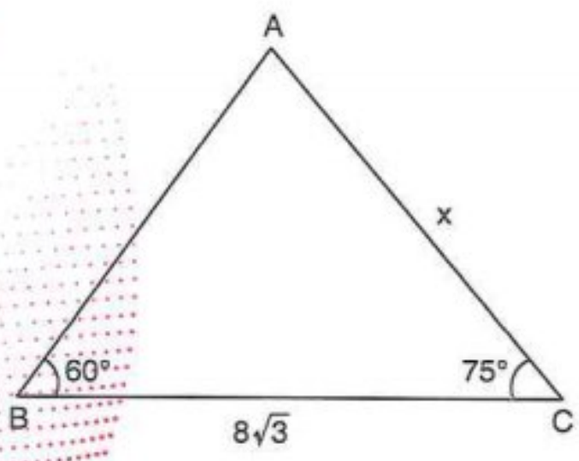


$m(\widehat{BAC}) = 150°$
$|AB| = \sqrt{3}\,br$
$|AC| = 6\,br$

$\Rightarrow$ **$|BC| = ?$**

A) $\sqrt{19}$ B) $\sqrt{29}$ C) $\sqrt{34}$ D) $4\sqrt{3}$ E) $\sqrt{57}$

48.



$m(\widehat{ABC}) = 60°$
$m(\widehat{ACB}) = 75°$
$|BC| = 8\sqrt{3}\,br$

$\Rightarrow$ **$|AC| = x = ?$**

A) 8 B) $8\sqrt{3}$ C) 12 D) $12\sqrt{2}$ E) $12\sqrt{3}$

37. D	38. D	39. B	40. D	41. B	42. B
43. C	44. C	45. D	46. A	47. E	48. D

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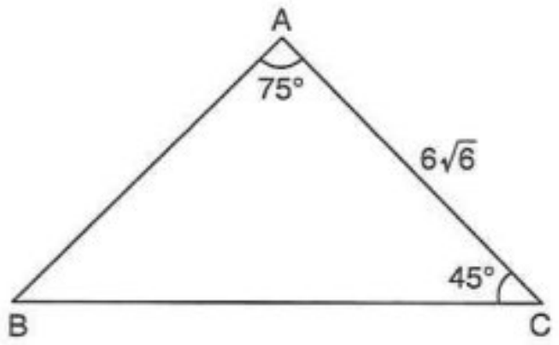
49.

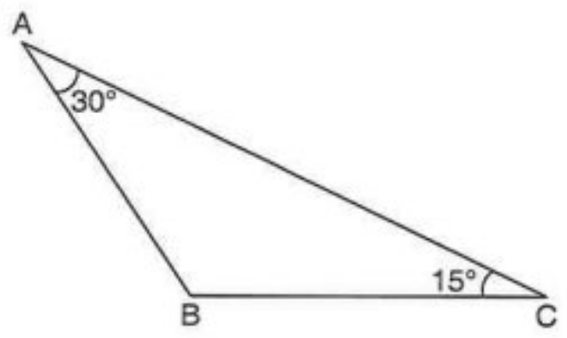


$m(\widehat{BAC}) = 75°$
$m(\widehat{BCA}) = 45°$
$|AC| = 6\sqrt{6}$ br

⇒ $|AB| = ?$

A) 6 B) $6\sqrt{2}$ C) $6\sqrt{3}$ D) 12 E) $12\sqrt{3}$

50.

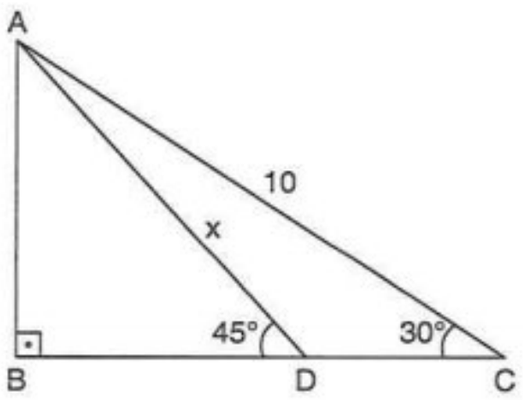


$m(\widehat{BAC}) = 30°$
$m(\widehat{BCA}) = 15°$
$|BC| = 6$ br

⇒ $|AC| = ?$

A) $6\sqrt{2}$ B) $6\sqrt{3}$ C) 12 D) $12\sqrt{2}$ E) $12\sqrt{3}$

51.

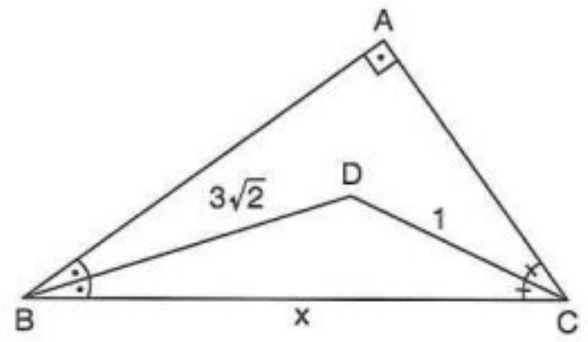


$[AB] \perp [BC]$
$m(\widehat{BDA}) = 45°$
$m(\widehat{BCA}) = 30°$
$|AC| = 10$ br

⇒ $|AD| = x = ?$

A) 5 B) $5\sqrt{2}$ C) $5\sqrt{3}$ D) 8 E) 9

52.

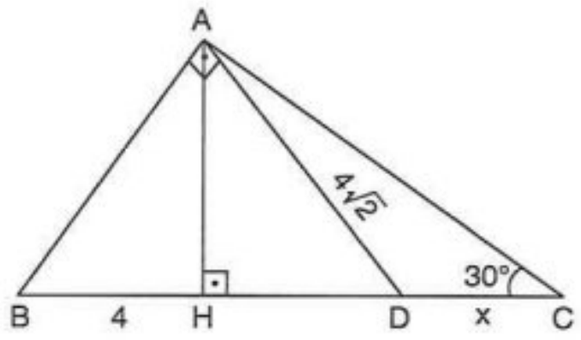


$[AB] \perp [AC]$
$m(\widehat{ABD}) = m(\widehat{DBC})$
$m(\widehat{ACD}) = m(\widehat{DCB})$
$|BD| = 3\sqrt{2}$ br
$|DC| = 1$ br

⇒ $|BC| = x = ?$

A) $3\sqrt{3}$ B) $3\sqrt{6}$ C) 5 D) 8 E) 10

53.

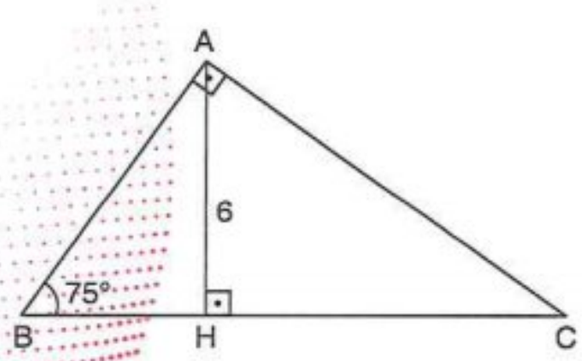


$[AB] \perp [AD]$
$[AH] \perp [BC]$
$m(\widehat{ACB}) = 30°$
$|AD| = 4\sqrt{2}$ br
$|BH| = 4$ br

⇒ $|DC| = x = ?$

A) 4 B) $4\sqrt{2}$ C) $4\sqrt{3}$ D) $4\sqrt{3} - 4$ E) $\sqrt{3}$

54.



$[AB] \perp [AC]$
$[AH] \perp [BC]$
$m(\widehat{ABC}) = 75°$
$|AH| = 6$ br

⇒ $|BC| = ?$

A) 6 B) $6\sqrt{3}$ C) 12 D) 18 E) 24

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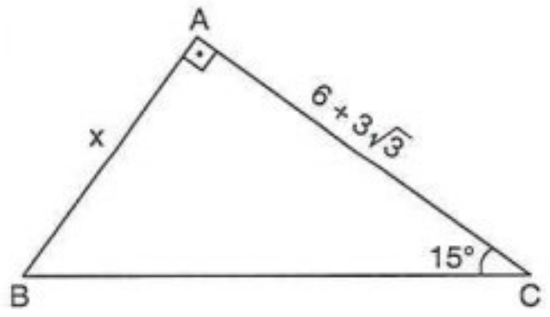
55.

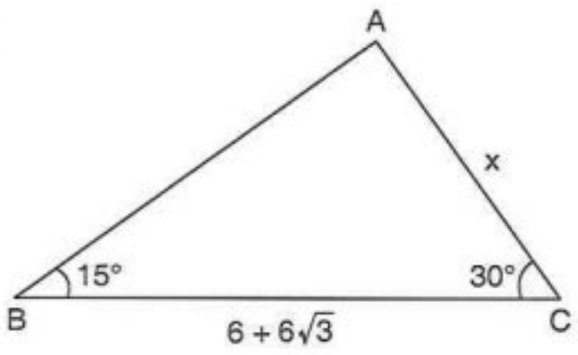


$[AB] \perp [AC]$
$m(\widehat{BCA}) = 15°$
$|AC| = (6+3\sqrt{3})$ br

$\Rightarrow |\mathbf{AB}| = \mathbf{x} = ?$

A) 3 B) 6 C) $3+\sqrt{3}$ D) 9 E) 12

56.

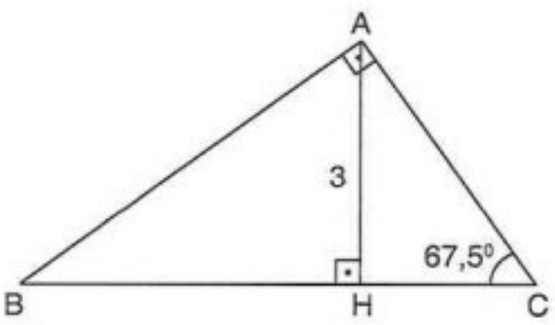


$m(\widehat{ABC}) = 15°$
$m(\widehat{ACB}) = 30°$
$|BC| = (6+6\sqrt{3})$ br

$\Rightarrow |\mathbf{AC}| = \mathbf{x} = ?$

A) 3 B) 6 C) 9 D) 12 E) 15

57.

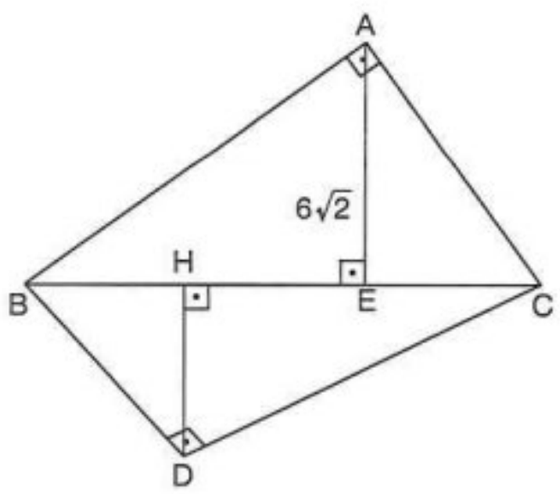


$[AB] \perp [AC]$
$[AH] \perp [BC]$
$m(\widehat{ACB}) = 67,5°$
$|AH| = 3$ br

$\Rightarrow |\mathbf{BC}| = ?$

A) 3 B) $3\sqrt{2}$ C) 6 D) $6\sqrt{2}$ E) $6\sqrt{3}$

58.

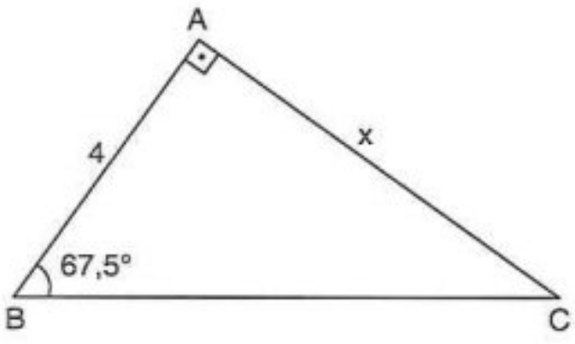


$[AB] \perp [AC]$
$[AE] \perp [BC]$
$[BD] \perp [DE]$
$[DH] \perp [BC]$
$m(\widehat{ABC}) = 22,5°$
$m(\widehat{BCD}) = 15°$
$|AE| = 6\sqrt{2}$ br

$\Rightarrow |\mathbf{DH}| = ?$

A) 3 B) $3\sqrt{2}$ C) 6 D) $6\sqrt{2}$ E) 24

59.

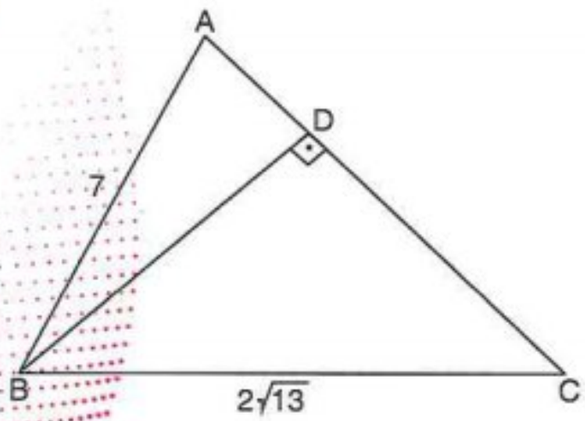


$[AB] \perp [AC]$
$m(\widehat{ABC}) = 67,5°$
$|AB| = 4$ br

$\Rightarrow |\mathbf{AC}| = \mathbf{x} = ?$

A) 4 B) $4\sqrt{2}$ C) $4+4\sqrt{2}$ D) $8+4\sqrt{3}$ E) 12

60.



$[AD] \perp [AC]$
$2|AD| = |DC|$
$|AB| = 7$ br
$|BC| = 2\sqrt{13}$ br

$\Rightarrow |\mathbf{BD}| = \mathbf{x} = ?$

A) 1 B) 2 C) $3\sqrt{3}$ D) 6 E) $4\sqrt{3}$

49. D	50. A	51. B	52. C	53. D	54. E
55. A	56. B	57. D	58. C	59. C	60. E

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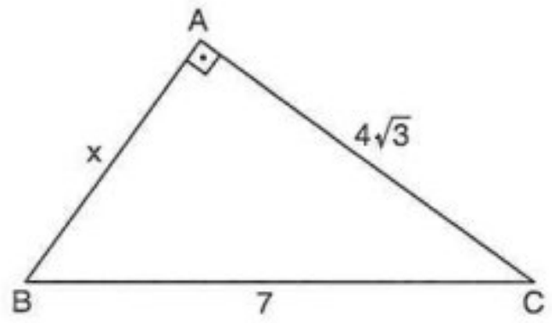
1.

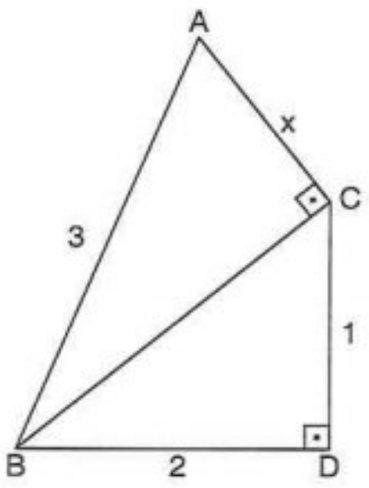


$[AB] \perp [AC]$
$|AC| = 4\sqrt{3}$ br
$|BC| = 7$ br

$\Rightarrow |\mathbf{AB}| = \mathbf{x} = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

2.

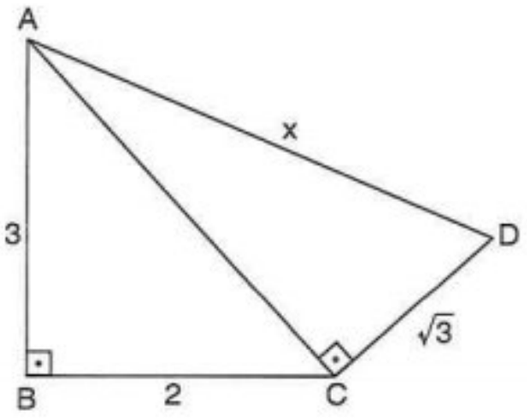


$[AC] \perp [BC]$
$[BD] \perp [CD]$
$|CD| = 1$br
$|BD| = 2$br
$|AB| = 3$br

$\Rightarrow |\mathbf{AC}| = \mathbf{x} = ?$

A) 1 B) $\sqrt{2}$ C) $\sqrt{3}$ D) 2 E) $\sqrt{5}$

3.

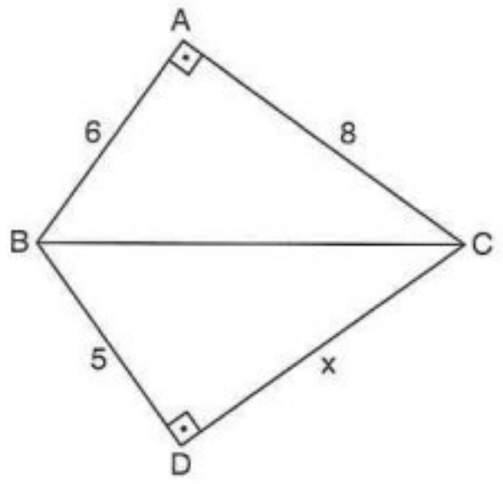


$[AB] \perp [BC]$
$[AC] \perp [CD]$
$|AB| = 3$ br
$|BC| = 2$ br
$|CD| = \sqrt{3}$ br

$\Rightarrow |\mathbf{AD}| = \mathbf{x} = ?$

A) $\sqrt{14}$ B) $\sqrt{15}$ C) 4 D) $\sqrt{17}$ E) $3\sqrt{2}$

4.

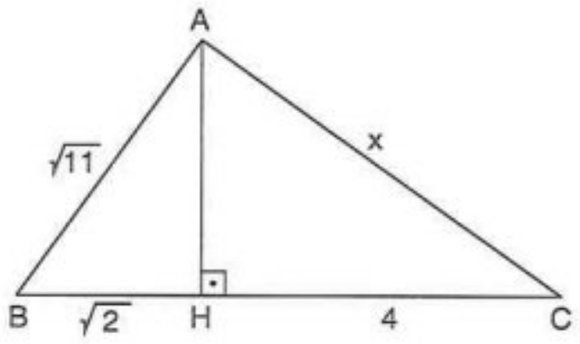


$[AB] \perp [AC]$
$[BD] \perp [DC]$
$|BD| = 5$br
$|AB| = 6$br
$|AC| = 8$br

$\Rightarrow |\mathbf{DC}| = \mathbf{x} = ?$

A) 3 B) $3\sqrt{2}$ C) $3\sqrt{5}$ D) 5 E) $5\sqrt{3}$

5.

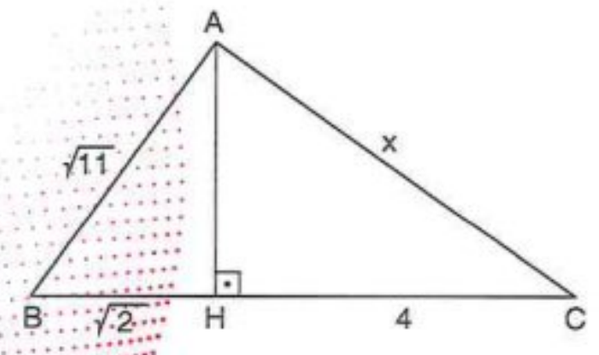


$[AH] \perp [BC]$
$|HC| = 4$br
$|AB| = \sqrt{11}$ br
$|BH| = \sqrt{2}$ br

$\Rightarrow |\mathbf{AC}| = \mathbf{x} = ?$

A) 3 B) 4 C) 5 D) $5\sqrt{2}$ E) $5\sqrt{3}$

6.



$[AH] \perp [BC]$
$|AB| = 7$br
$|BH| = 1$br
$|HC| = 4$br

$\Rightarrow |\mathbf{AC}| = \mathbf{x} = ?$

A) 5 B) $5\sqrt{2}$ C) 6 D) 8 E) 10

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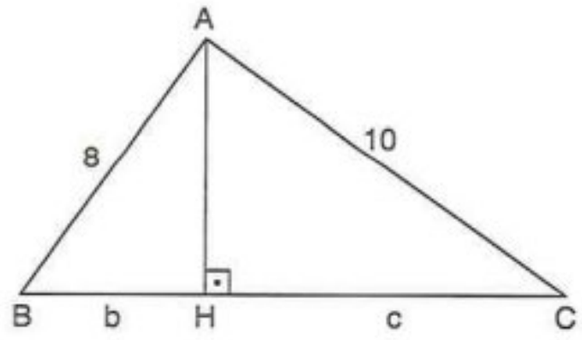
7.

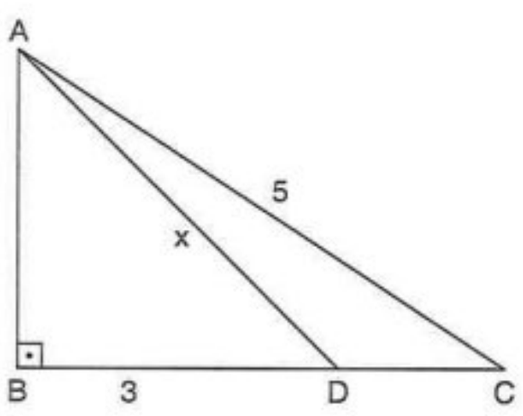


$[AH] \perp [BC]$
$|AB| = 8$ br
$|AC| = 10$ br
$|BH| = b$ br
$|HC| = c$ br

$\Rightarrow c^2 - b^2 = ?$

A) 6 B) 12 C) 18 D) 24 E) 36

8.

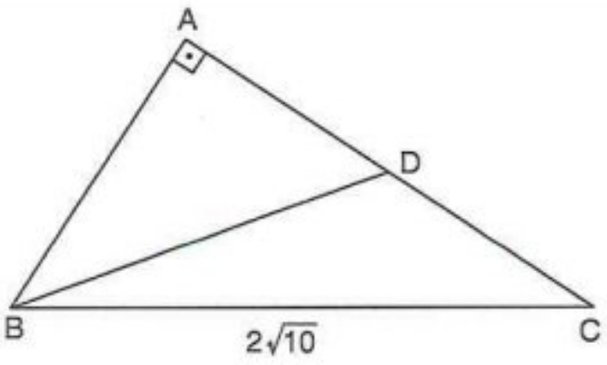


$[AB] \perp [BC]$
$|AC| = 5$ br
$|BD| = 3$ br
$|DC| = 1$ br

$\Rightarrow |AD| = x = ?$

A) $\sqrt{10}$ B) $2\sqrt{3}$ C) $3\sqrt{2}$ D) $3\sqrt{3}$ E) 4

9.

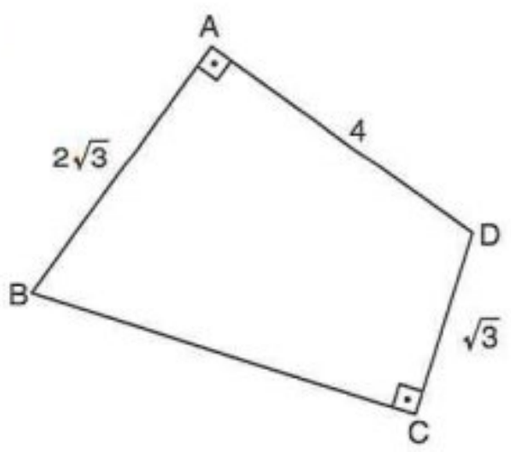


$[AB] \perp [AC]$
$|AD| = |DC|$
$|BD| = \sqrt{13}$ br
$|BC| = 2\sqrt{10}$ br

$\Rightarrow |AB| = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

10.

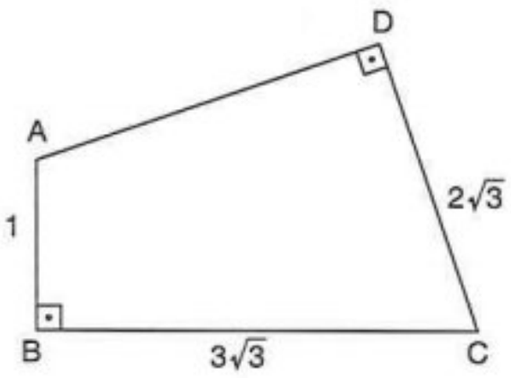


$[AB] \perp [AD]$
$[BC] \perp [CD]$
$|AB| = 2\sqrt{3}$ br
$|AD| = 4$ br
$|DC| = \sqrt{3}$ br

$\Rightarrow |BC| = ?$

A) 3 B) 4 C) 5 D) 6 E) 7

11.

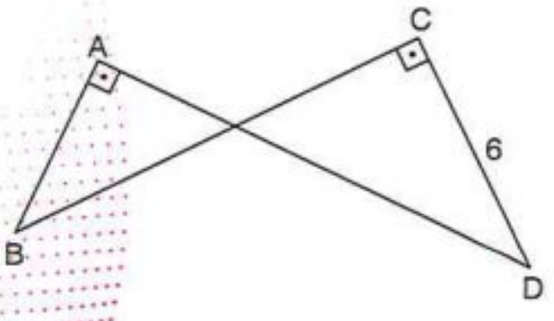


$[AB] \perp [BC]$
$[AD] \perp |DC|$
$|AB| = 1$br
$|DC| = 2\sqrt{3}$ br
$|BC| = 3\sqrt{3}$ br

$\Rightarrow |AD| = ?$

A) 3 B) 4 C) 5 D) 6 E) 8

12.



$[AB] \perp [AD]$
$[BC] \perp [CD]$
$|CD| = 6$ br
$|BC| = 8$ br
$|AD| = 5\sqrt{3}$ br

$\Rightarrow |AB| = ?$

A) 5 B) 6 C) 7 D) 8 E) 9

1. A	2. D	3. C	4. E	5. C	6. D
7. E	8. C	9. B	10. C	11. B	12. A

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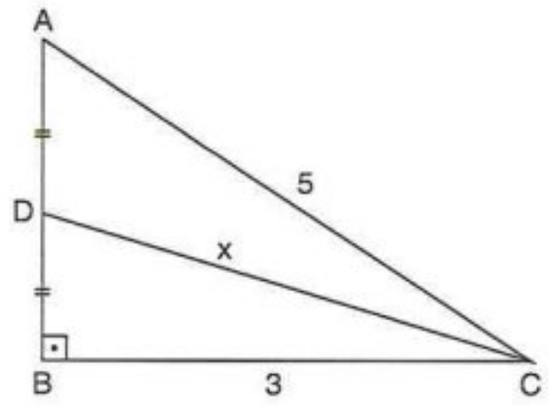
1.

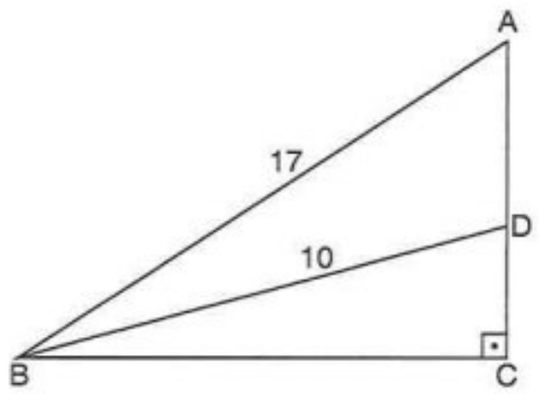


$[AB] \perp [BC]$
$|AD| = |BD|$
$|AC| = 5\,br$
$|BC| = 3\,br$

$\Rightarrow |\mathbf{DC}| = \mathbf{x} = ?$

A) $\sqrt{10}$ B) $\sqrt{11}$ C) $2\sqrt{3}$ D) $\sqrt{13}$ E) $\sqrt{14}$

2.

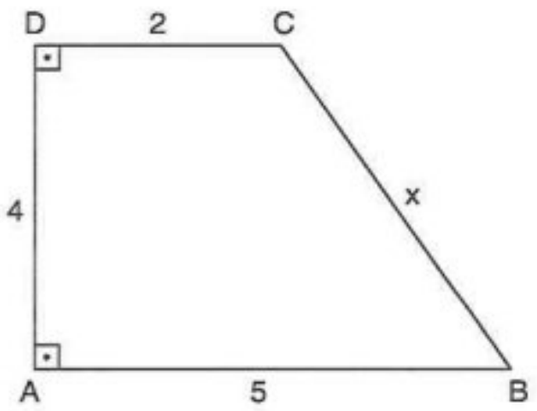


$[AC] \perp [BC]$
$|AB| = 17\,br$
$|BD| = 10\,br$
$|DC| = 6\,br$

$\Rightarrow |\mathbf{AD}| = ?$

A) 5 B) 6 C) 7 D) 8 E) 9

3.

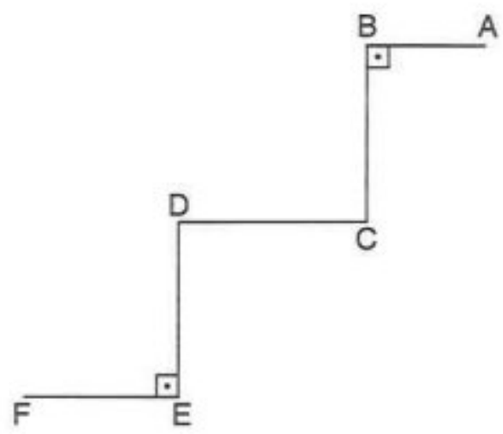


$[AB] \perp [AD]$
$[AD] \perp [DC]$
$|AB| = 5\,br$
$|AD| = 4\,br$
$|DC| = 2\,br$

$\Rightarrow |\mathbf{BC}| = \mathbf{x} = ?$

A) 5 B) 6 C) 8 D) 10 E) 13

4.

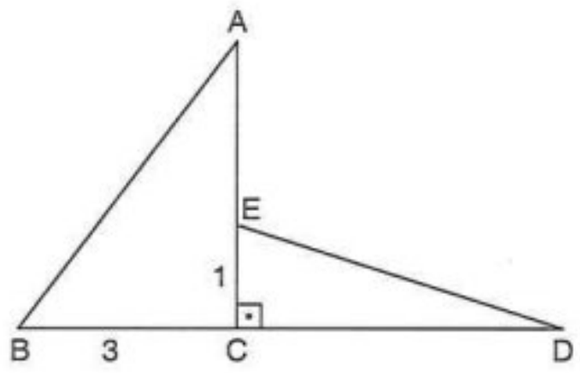


$[AB] /\!/ [DC] /\!/ [EF]$
$[AB] \perp [BC]$
$[DE] \perp [EF]$
$|AB| = |DC| = |EF| = 3\,br$
$|BC| = |DE| = 6\,br$

$\Rightarrow |\mathbf{AF}| = ?$

A) 13 B) 14 C) 15 D) 16 E) 17

5.

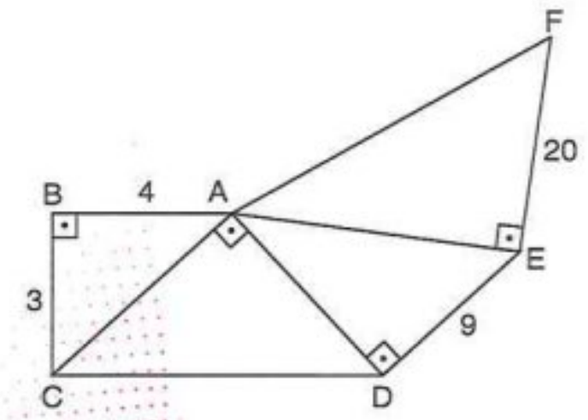


$[AC] \perp [BD]$
$|AB| = |ED|$
$|BC| = |AE| = 3\,br$
$|EC| = 1\,br$

$\Rightarrow |\mathbf{CD}| = ?$

A) 4 B) $3\sqrt{2}$ C) $2\sqrt{5}$ D) $2\sqrt{6}$ E) 5

6.



$[AB] \perp [BC]$
$[AC] \perp [AD]$
$[AD] \perp [DE]$
$[AE] \perp [EF]$
$|AB| = 4\,br$
$|BC| = 3\,br$
$|CD| = 13\,br$
$|DE| = 9\,br$
$|EF| = 20\,br$

$\Rightarrow |\mathbf{AF}| = ?$

A) 22 B) 25 C) 27 D) 30 E) 32

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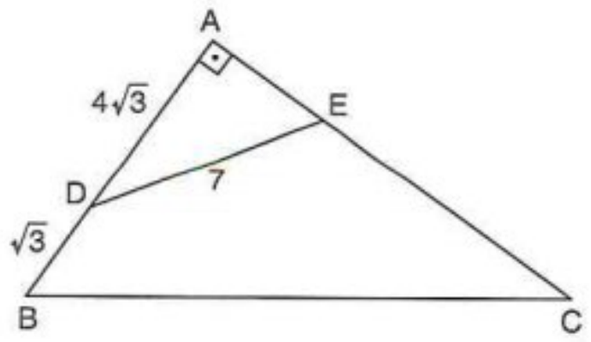
7.

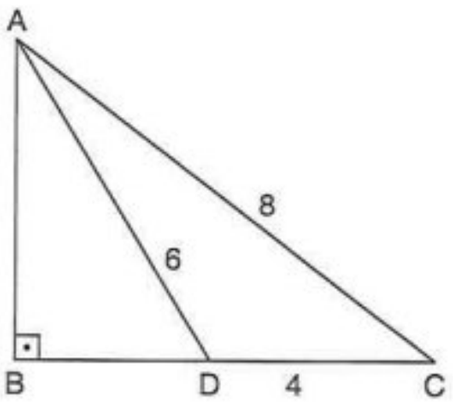


$[AB] \perp [AC]$
$|EC| = 4|AE|$
$|AD| = 4\sqrt{3}$ br
$|BD| = \sqrt{3}$ br
$|DE| = 7$ br

⇒ $|\mathbf{BC}| = ?$

A) $4\sqrt{6}$ B) 10 C) $5\sqrt{5}$ D) 12 E) $12\sqrt{2}$

8.

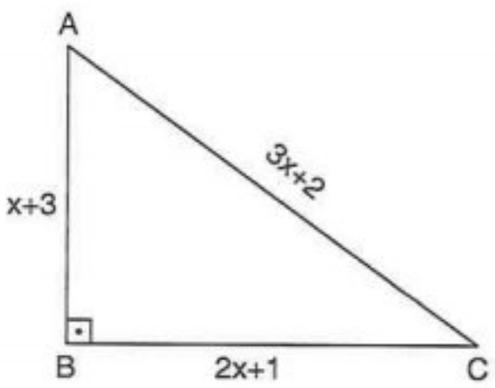


$[AB] \perp [BC]$
$|AC| = 8$ br
$|AD| = 6$ br
$|DC| = 4$ br

⇒ $|\mathbf{BD}| = ?$

A) $\frac{1}{2}$ B) 1 C) $\frac{3}{2}$ D) 2 E) $\frac{5}{2}$

9.

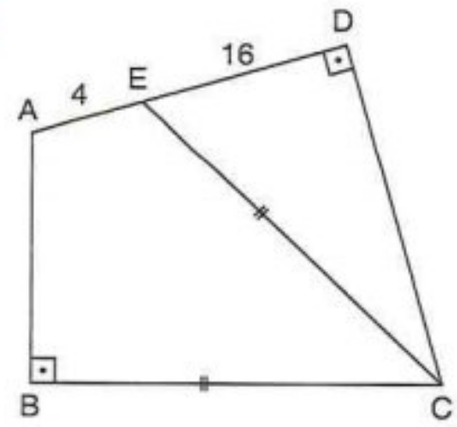


$[AB] \perp [BC]$
$|AB| = (x+3)$ br
$|BC| = (2x+1)$ br
$|AC| = (3x+2)$ br

⇒ **Çevre(ABC) = ?**

A) 12 B) 15 C) 24 D) 30 E) 34

10.

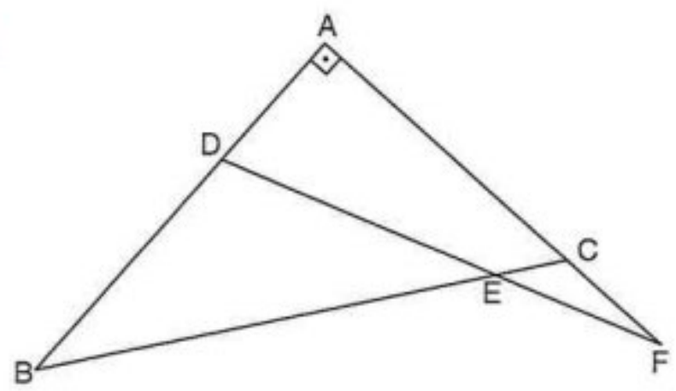


$[AB] \perp [BC]$
$[AD] \perp [DC]$
$|BC| = |CE|$
$|ED| = 16$ br
$|AE| = 4$ br

⇒ $|\mathbf{AB}| = ?$

A) 8 B) 9 C) 10 D) 12 E) 15

11.

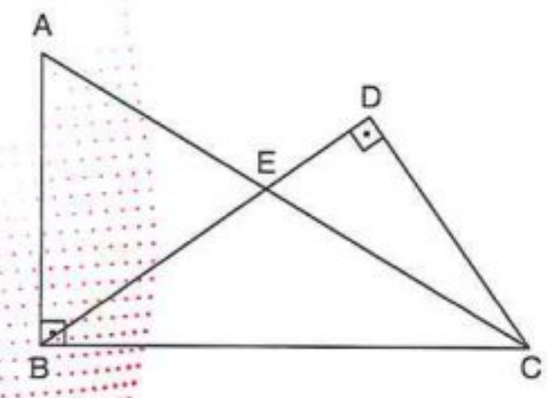


$[AB] \perp [AF]$
$|BC| = 26$ br
$|AF| = 12$ br
$|BD| = 15$ br
$|CF| = 2$ br

⇒ $|\mathbf{DF}| = ?$

A) 9 B) 12 C) 13 D) 15 E) 16

12.



$[AB] \perp [BC]$
$[BD] \perp [DC]$
$|AE| = |EC|$
$|DC| = 3\sqrt{5}$ br
$|BC| = 3\sqrt{30}$ br

⇒ $|\mathbf{BE}| = ?$

A) 6 B) 7 C) 8 D) 9 E) 10

1. D	2. E	3. A	4. C	5. D	6. B
7. B	8. C	9. A	10. D	11. D	12. D

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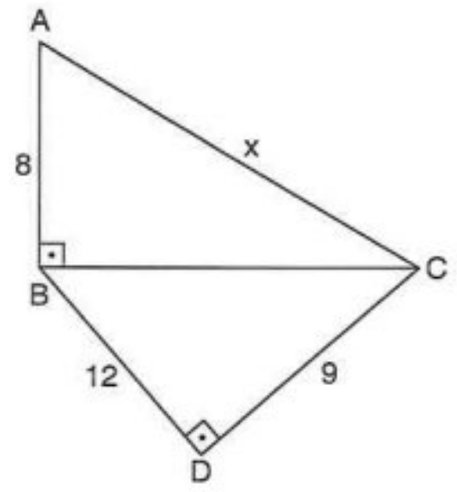
1.

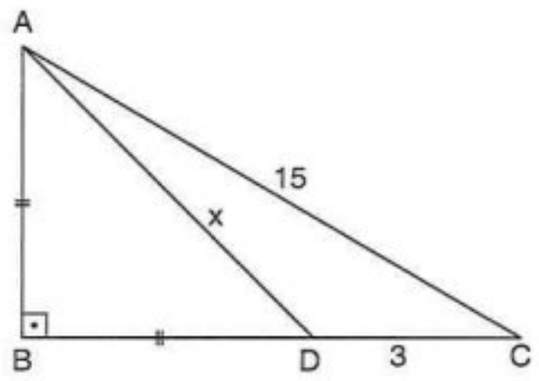


$[AB] \perp [BC]$
$[BD] \perp [DC]$
$|AB| = 8$ br
$|DC| = 9$ br
$|BD| = 12$ br

$\Rightarrow |\mathbf{AC}| = \mathbf{x} = ?$

A) 15 B) 16 C) 17 D) $16\sqrt{2}$ E) $8\sqrt{5}$

2.

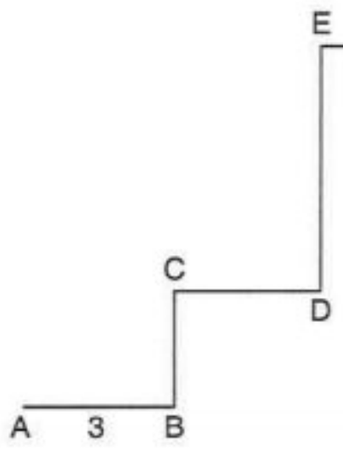


$[AB] \perp [BC]$
$|AB| = |BD|$
$|AC| = 15$ br
$|DC| = 3$ br

$\Rightarrow |\mathbf{AD}| = \mathbf{x} = ?$

A) 7 B) $8\sqrt{2}$ C) 9 D) $9\sqrt{2}$ E) 12

3.

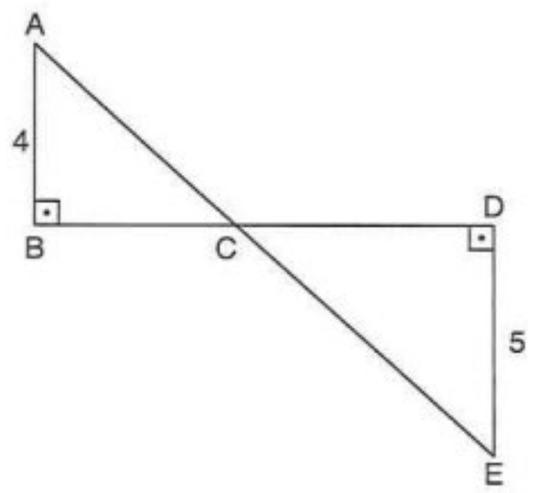


$[AB] /\!/ [CD] /\!/ [EF]$
$[BC] /\!/ [ED]$
$[AB] \perp [BC]$
$|DE| = 2|CD| = 4$ br
$|BC| = 1$ br
$|AB| = 3$ br
$|EF| = 7$ br

$\Rightarrow |\mathbf{AF}| = ?$

A) 8 B) 10 C) 12 D) 13 E) 17

4.

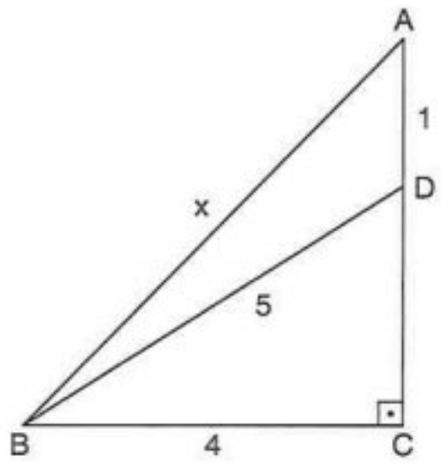


$[AB] \perp [BD]$
$[BD] \perp [DE]$
$|AB| = 4$ br
$|DE| = 5$ br
$|BD| = 12$ br

$\Rightarrow |\mathbf{AE}| = ?$

A) 13 B) 15 C) 17 D) 24 E) 25

5.

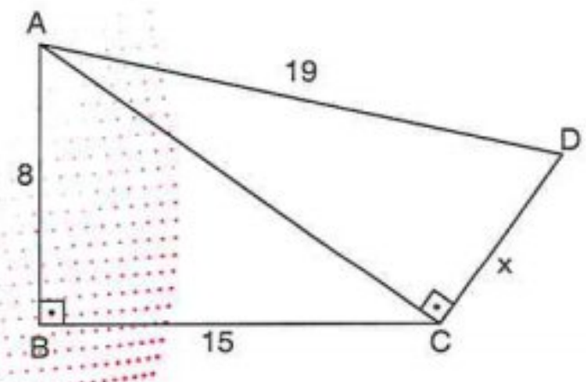


$[AC] \perp [BC]$
$|BD| = 5$ br
$|BC| = 4$ br
$|AD| = 1$ br

$\Rightarrow |\mathbf{AB}| = \mathbf{x} = ?$

A) $3\sqrt{2}$ B) $2\sqrt{5}$ C) $4\sqrt{2}$ D) 8 E) 10

6.



$[AB] \perp [BC]$
$[AC] \perp [CD]$
$|AB| = 8$ br
$|BC| = 15$ br
$|AD| = 19$ br

$\Rightarrow |\mathbf{CD}| = \mathbf{x} = ?$

A) 6 B) $6\sqrt{2}$ C) 8 D) $8\sqrt{2}$ E) 11

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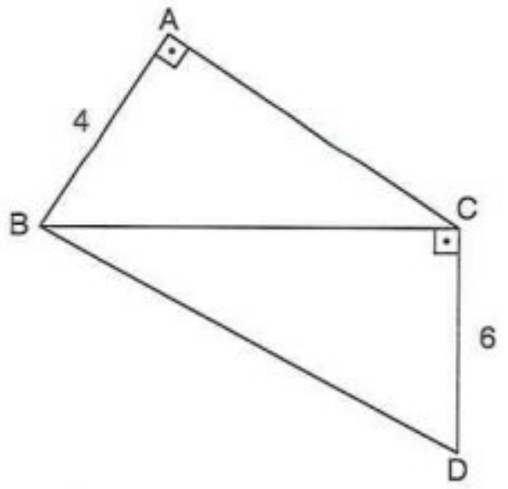
7.

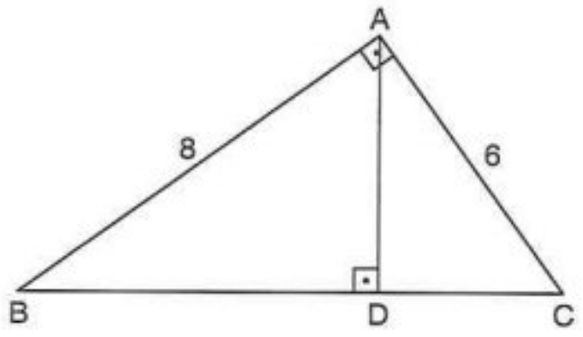


$[AB] \perp [AC]$
$[BC] \perp [CD]$
$|AB| = 4$ br
$|CD| = 6$ br

$\Rightarrow |BD|^2 - |AC|^2 = ?$

A) 10 B) 16 C) 20 D) 40 E) 52

8.

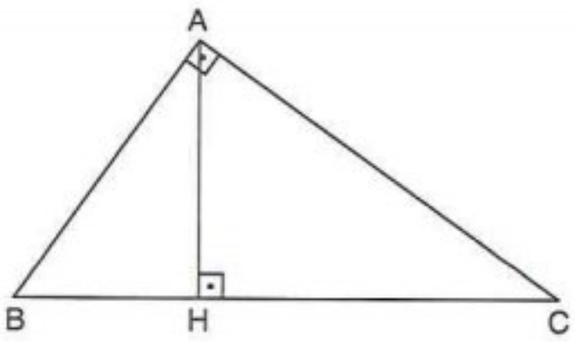


$[AB] \perp [AC]$
$[AD] \perp [BC]$
$|AB| = 8$ br
$|AC| = 6$ br

$\Rightarrow |AD| = ?$

A) 1,2 B) 2,4 C) 3,6 D) 4,8 E) 5,2

9.

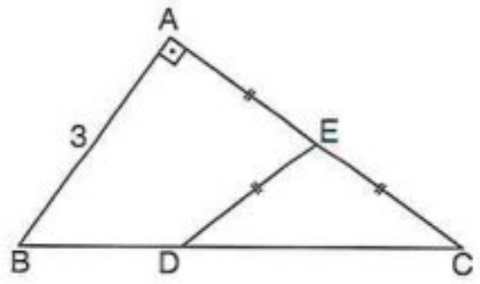


$[AB] \perp [AC]$
$[AH] \perp [BC]$
$|BC| = 8$ br
$|AB| + |AC| = 10$ br

$\Rightarrow |AH| = ?$

A) $\frac{7}{4}$ B) 2 C) $\frac{9}{4}$ D) $\frac{11}{4}$ E) $\frac{17}{5}$

10.

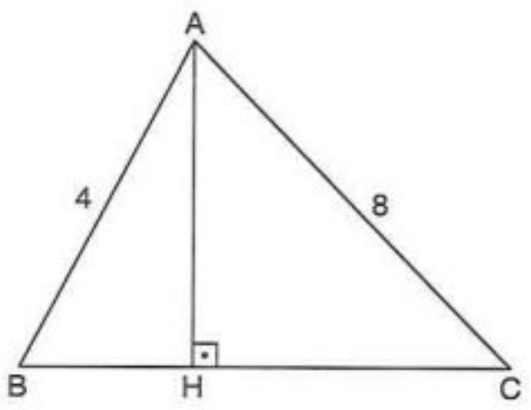


$[AB] \perp [AC]$
$|AE| = |EC| = |ED| = 2$ br
$|AB| = 3$ br

$\Rightarrow \frac{|BD|}{|DC|} = ?$

A) $\frac{3}{4}$ B) $\frac{9}{16}$ C) $\frac{3}{7}$ D) $\frac{7}{3}$ E) $\frac{27}{64}$

11.

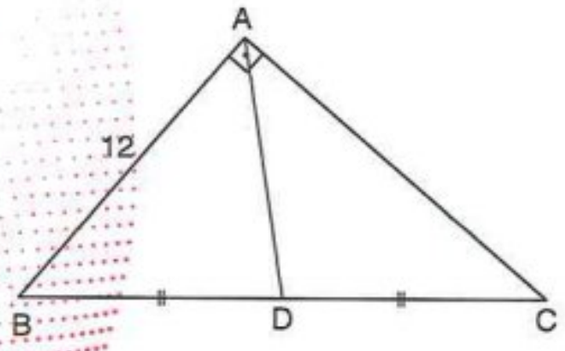


$[AH] \perp [BC]$
$|AB| = 4$ br
$|AC| = 8$ br
$|BC| = 10$ br

$\Rightarrow |BH| = ?$

A) $\frac{12}{5}$ B) $\frac{13}{5}$ C) $\frac{14}{5}$ D) 3 E) $\frac{16}{5}$

12.



$[AB] \perp [AC]$
$|BD| = |DC|$
$|AB| = 12$ br
$|AD| = 10$ br

$\Rightarrow |AC| = ?$

A) 12 B) 14 C) 16 D) 18 E) 20

1. C	2. D	3. D	4. B	5. C	6. B
7. E	8. D	9. C	10. B	11. B	12. C

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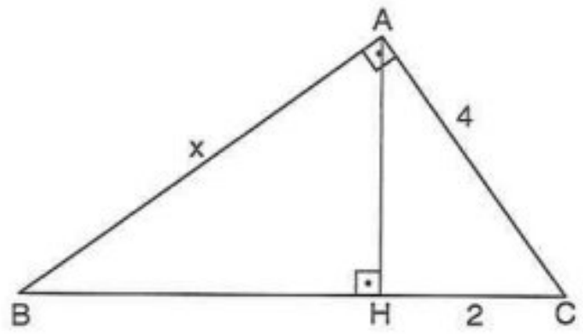
1.

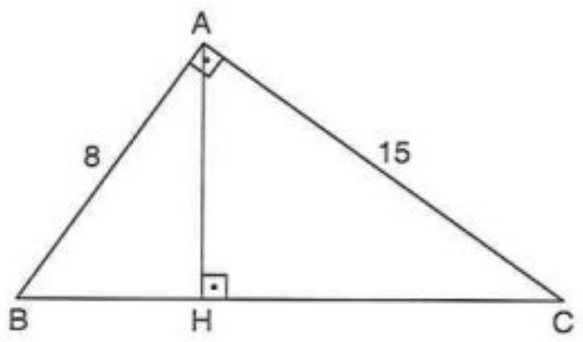


$[AB] \perp [AC]$
$[AH] \perp [BC]$
$|AC| = 4$ br
$|HC| = 2$ br

$\Rightarrow |\mathbf{AB}| = \mathbf{x} = ?$

A) $2\sqrt{5}$ B) $2\sqrt{6}$ C) 6 D) $4\sqrt{3}$ E) 8

2.

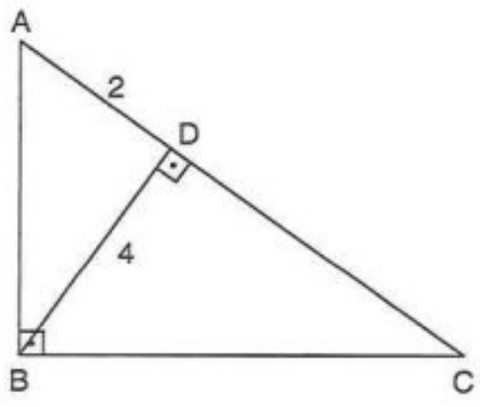


$[AB] \perp [AC]$
$[AH] \perp [BC]$
$|AC| = 15$ br
$|AB| = 8$ br

$\Rightarrow |\mathbf{AH}| = ?$

A) 17 B) 21 C) $\frac{120}{17}$ D) $\frac{24}{7}$ E) $\frac{169}{17}$

3.

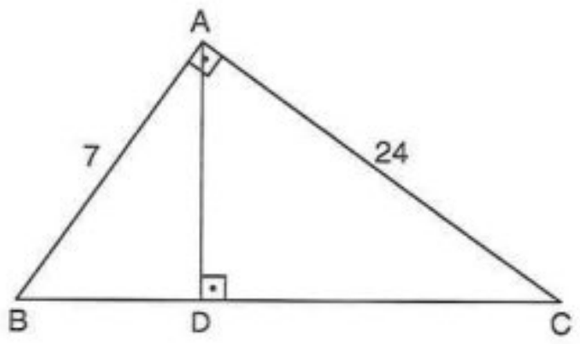


$[AB] \perp [BC]$
$[BD] \perp [AC]$
$|BD| = 4$ br
$|AD| = 2$ br

$\Rightarrow |\mathbf{AB}|.|\mathbf{BC}| = ?$

A) 8 B) 12 C) 16 D) 20 E) 40

4.

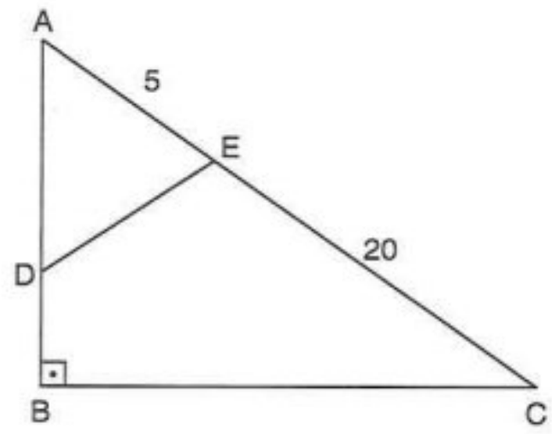


$[AB] \perp [AC]$
$[AD] \perp [BC]$
$|AB| = 7$ br
$|AC| = 24$ br

$\Rightarrow |\mathbf{BD}| = ?$

A) $\frac{13}{25}$ B) $\frac{25}{7}$ C) $\frac{49}{5}$ D) $\frac{49}{25}$ E) $\frac{81}{57}$

5.

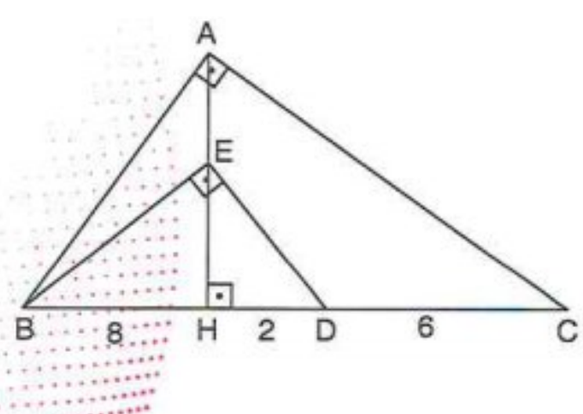


$[AB] \perp [BC]$
$|AD| = |BD| = |DE|$
$|AE| = 5$ br
$|EC| = 20$ br

$\Rightarrow |\mathbf{BC}| = ?$

A) 5 B) 10 C) $5\sqrt{5}$ D) $10\sqrt{5}$ E) 15

6.



$[AB] \perp [AC]$
$[BE] \perp [ED]$
$[AH] \perp [BC]$
$|BH| = 8$ br
$|HD| = 2$ br
$|DC| = 6$ br

$\Rightarrow |\mathbf{AE}| = ?$

A) 2 B) 4 C) 6 D) 8 E) 10

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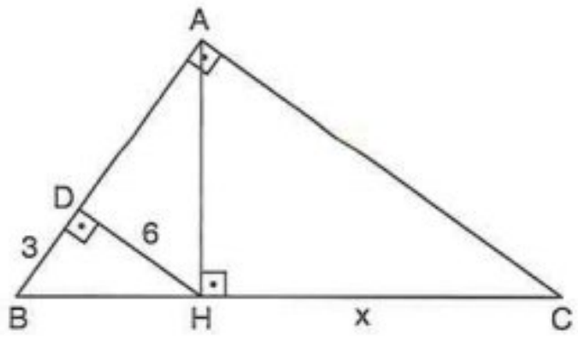
7.

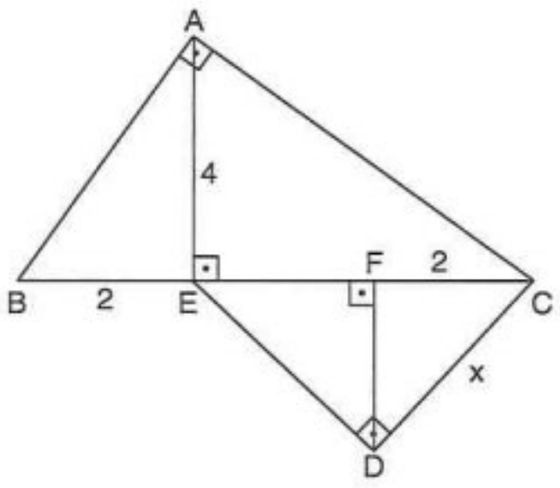


$[AB] \perp [AC]$
$[AH] \perp [BC]$
$[HD] \perp [AB]$
$|BD| = 3$ br
$|HD| = 6$ br

⇒ $|\mathbf{HC}| = \mathbf{x} = ?$

A) $3\sqrt{5}$ B) $4\sqrt{5}$ C) $6\sqrt{5}$ D) $9\sqrt{5}$ E) $12\sqrt{5}$

8.

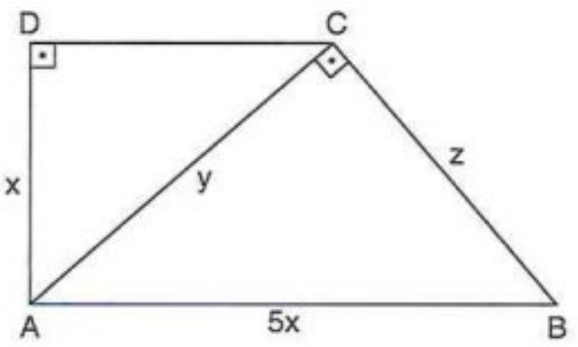


$[AB] \perp [AC]$
$[AE] \perp [BC]$
$[DE] \perp [DC]$
$[DF] \perp [BC]$
$|AE| = 4$ br
$|BE| = |FC| = 2$ br

⇒ $|\mathbf{DC}| = ?$

A) $2\sqrt{3}$ B) $2\sqrt{5}$ C) $3\sqrt{2}$ D) $3\sqrt{5}$ E) 4

9.

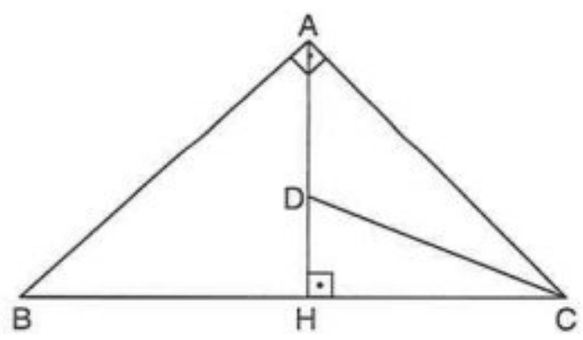


$[AD] \perp [AB]$
$[AD] \perp [DC]$
$[AC] \perp [BC]$
$|AB| = 5|AD| = 5x$ br
$|AC| = y$ br
$|BC| = z$ br
$y.z = 20$ br^2

⇒ $\mathbf{x} = ?$

A) 2 B) 4 C) 6 D) 8 E) 10

10.

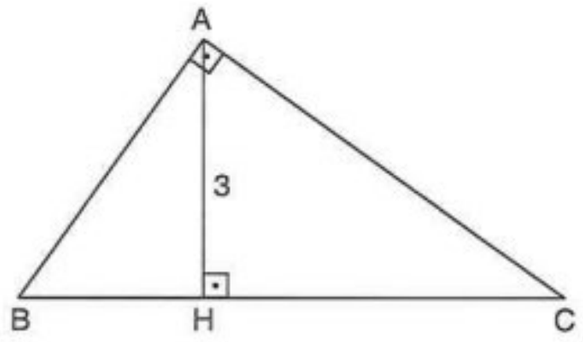


$[AB] \perp [AC]$
$[AH] \perp [BC]$
$|BH| = |HC| = 8$ br
$|DC| = 10$ br

⇒ $|\mathbf{AD}| = ?$

A) 2 B) 4 C) 6 D) 8 E) 10

11.

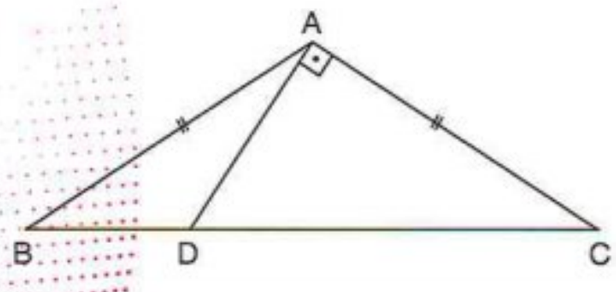


$[AB] \perp [AC]$
$[AH] \perp [BC]$
$|AH| = 3$ br
$|BC| = 8$ br

⇒ $||\mathbf{HC}| - |\mathbf{BH}|| = ?$

A) $2\sqrt{6}$ B) $2\sqrt{7}$ C) $4\sqrt{2}$ D) $\sqrt{46}$ E) $5\sqrt{2}$

12.



$[AD] \perp [AC]$
$|AB| = |AC| = 3\sqrt{13}$ br
$|BC| = 18$ br

⇒ $|\mathbf{AD}| = ?$

A) $\sqrt{13}$ B) 4 C) 7 D) $5\sqrt{2}$ E) $2\sqrt{13}$

1. D	2. C	3. E	4. D	5. D	6. B
7. E	8. E	9. A	10. A	11. B	12. E

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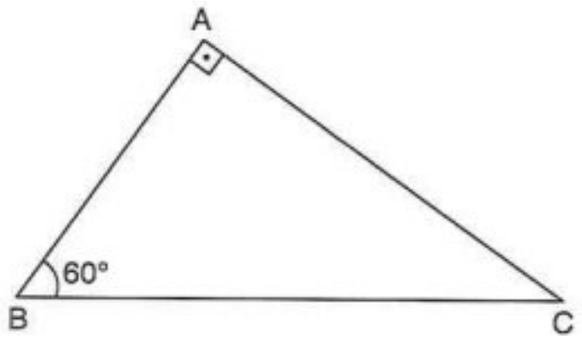
1.

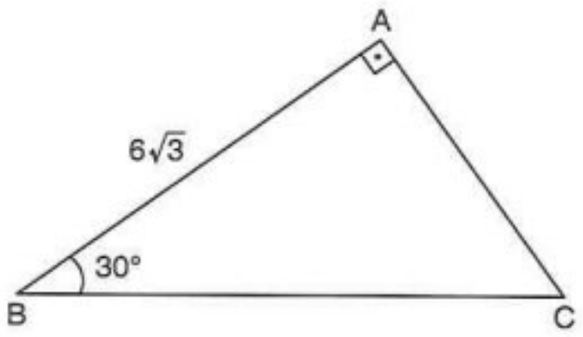


$[AB] \perp [AC]$
$|AB| + |BC| = 18$ br

$\Rightarrow$ $|\mathbf{AC}| = ?$

A) 6 B) $6\sqrt{2}$ C) $6\sqrt{3}$ D) 12 E) $12\sqrt{3}$

2.

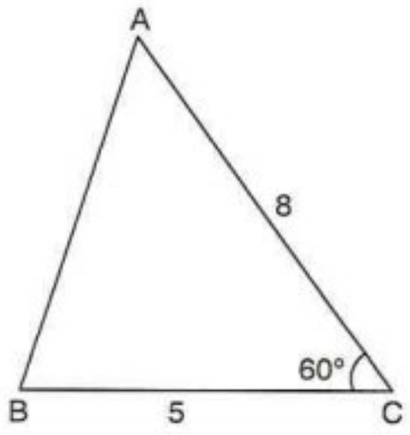


$[AB] \perp [AC]$
$m(\widehat{ABC}) = 30°$
$|AB| = 6\sqrt{3}$ br

$\Rightarrow$ $|\mathbf{AC}| = \mathbf{x} = ?$

A) 3 B) $3\sqrt{3}$ C) 6 D) 9 E) 12

3.

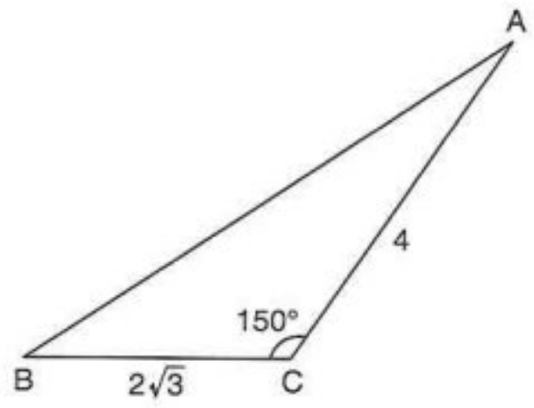


$m(\widehat{ACB}) = 60°$
$|AC| = 8$ br
$|BC| = 5$ br

$\Rightarrow$ $|\mathbf{AB}| = ?$

A) 4 B) 5 C) 6 D) 7 E) 8

4.

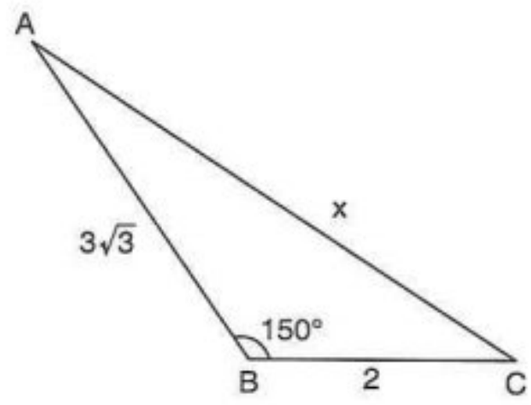


$m(\widehat{BCA}) = 150°$
$|BC| = 2\sqrt{3}$ br
$|AC| = 4$ br

$\Rightarrow$ $|\mathbf{AB}| = ?$

A) $2\sqrt{5}$ B) $2\sqrt{13}$ C) $4\sqrt{6}$ D) $4\sqrt{13}$ E) 8

5.

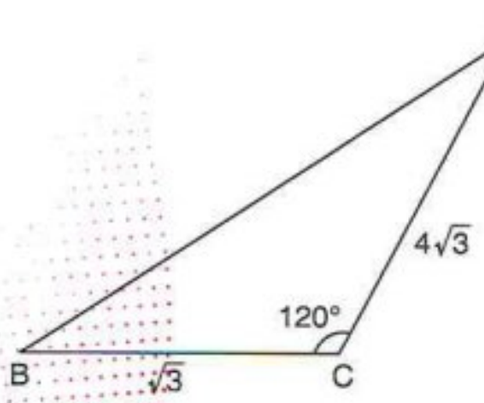


$m(\widehat{ABC}) = 150°$
$|AB| = 3\sqrt{3}$ br
$|BC| = 2$ br

$\Rightarrow$ $|\mathbf{AC}| = \mathbf{x} = ?$

A) $2\sqrt{5}$ B) $2\sqrt{13}$ C) $4\sqrt{3}$ D) 7 E) 10

6.



$m(\widehat{BCA}) = 120°$
$|AC| = 4\sqrt{3}$ br
$|BC| = \sqrt{3}$ br

$\Rightarrow$ $|\mathbf{AB}| = ?$

A) $3\sqrt{7}$ B) $4\sqrt{3}$ C) $5\sqrt{6}$ D) $2\sqrt{13}$ E) 9

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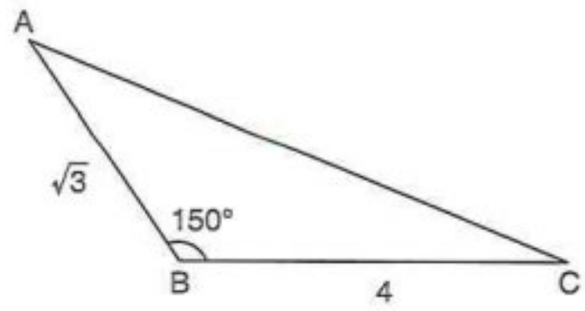
7.

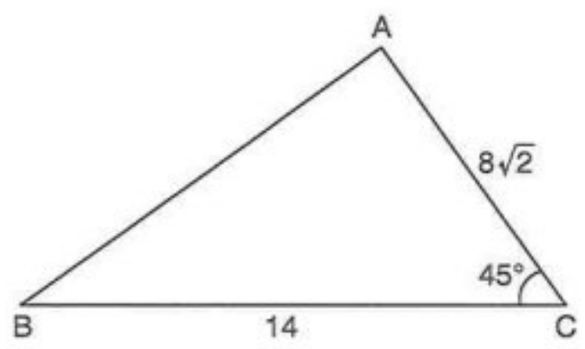


$m(\widehat{ABC}) = 150°$
$|AB| = \sqrt{3}$ br
$|BC| = 4$ br

⇒ $|AC| = ?$

A) $2\sqrt{3}$ B) $3\sqrt{3}$ C) $\sqrt{31}$ D) $\sqrt{34}$ E) $2\sqrt{13}$

8.

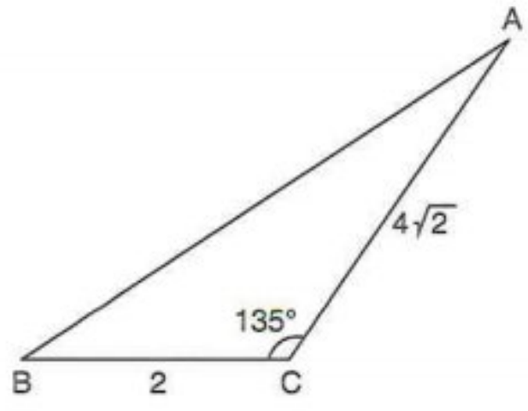


$m(\widehat{ACB}) = 45°$
$|BC| = 14$ br
$|AC| = 8\sqrt{2}$ br

⇒ $|AB| = ?$

A) 8 B) $8\sqrt{3}$ C) 10 D) $10\sqrt{2}$ E) 16

9.

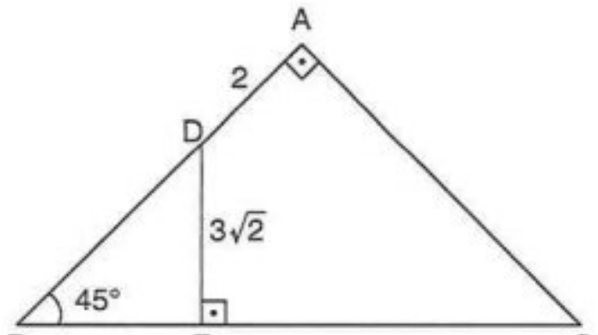


$m(\widehat{BCA}) = 135°$
$|AC| = 4\sqrt{2}$ br
$|BC| = 2$ br

⇒ $|AB| = ?$

A) $2\sqrt{11}$ B) $\sqrt{46}$ C) $4\sqrt{3}$ D) $5\sqrt{2}$ E) $2\sqrt{13}$

10.

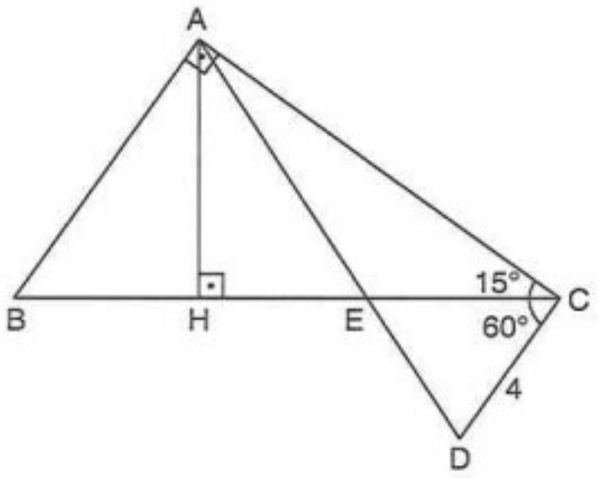


$[AB] \perp [AC]$
$[DE] \perp [BC]$
$m(\widehat{ABC}) = 45°$
$|AD| = 2$ br
$|DE| = 3\sqrt{2}$ br

⇒ $|EC| = ?$

A) $2\sqrt{2}$ B) $4\sqrt{2}$ C) $5\sqrt{2}$ D) $6\sqrt{2}$ E) $8\sqrt{2}$

11.

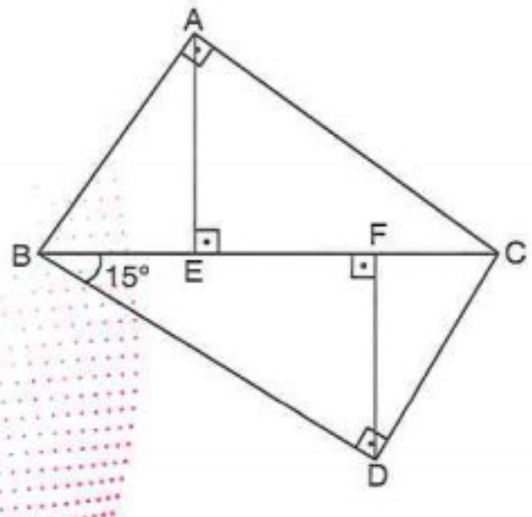


$[AB] \perp [AC]$
$[AD] \perp [DC]$
$[AH] \perp [BC]$
$m(\widehat{ACB}) = 15°$
$m(\widehat{BCD}) = 60°$
$|DC| = 4$ br

⇒ $|BE| = ?$

A) 8 B) 9 C) 10 D) 11 E) 12

12.



$[AB] \perp [AC]$
$[AE] \perp [BC]$
$[BD] \perp [DC]$
$[DF] \perp [BC]$
$m(\widehat{ACB}) = 22,5°$
$m(\widehat{CBD}) = 15°$
$|AE| = 3\sqrt{2}$ br

⇒ $|DF| = ?$

A) 3 B) 4 C) 6 D) 8 E) 9

1. C	2. C	3. D	4. B	5. D	6. A
7. C	8. C	9. E	10. C	11. A	12. A

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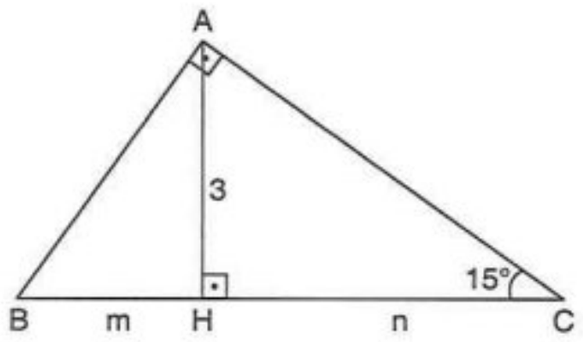
1.

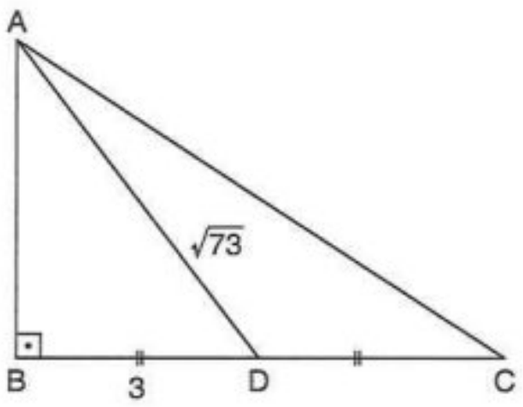


$[AB] \perp [AC]$
$[AH] \perp [BC]$
$m(\widehat{ACB}) = 15°$
$|AH| = 3$ br
$|BH| = m$ br
$|HC| = n$ br

$\Rightarrow$ $\mathbf{m^2 + n^2 = ?}$

A) 96 B) 112 C) 126 D) 144 E) 216

2.

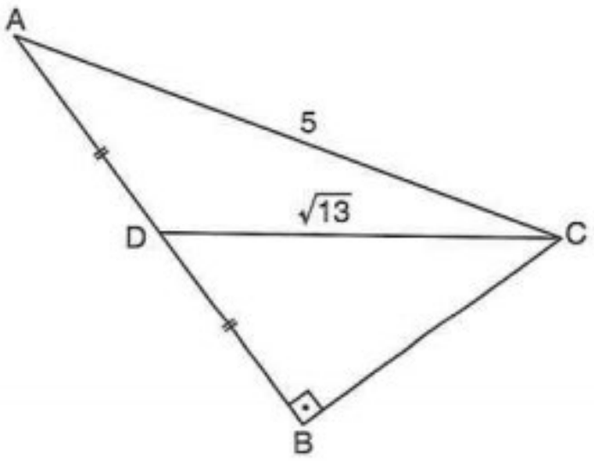


$[AB] \perp [BC]$
$|BD| = |DC| = 3$ br
$|AD| = \sqrt{73}$ br

$\Rightarrow$ $\mathbf{|AC| = ?}$

A) 8 B) 10 C) $8\sqrt{2}$ D) $10\sqrt{2}$ E) 12

3.

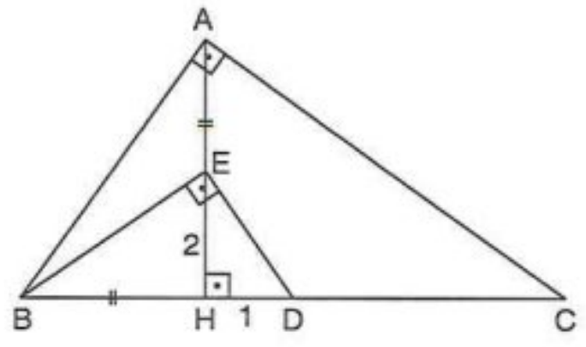


$[AB] \perp [BC]$
$|AD| = |DB|$
$|AC| = 5$ br
$|DC| = \sqrt{13}$ br

$\Rightarrow$ $\mathbf{|BC| = ?}$

A) 1 B) $\sqrt{2}$ C) 2 D) 3 E) $2\sqrt{3}$

4.

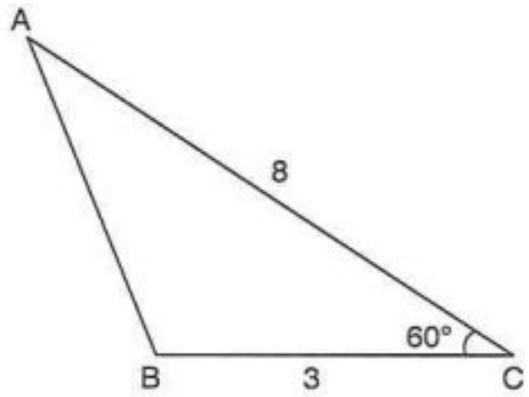


$[AB] \perp [AC]$
$[BE] \perp [ED]$
$[AH] \perp [BC]$
$|AE| = |BH|$
$|EH| = 2$ br
$|HD| = 1$ br

$\Rightarrow$ $\mathbf{|DC| = ?}$

A) 5 B) 6 C) 7 D) 8 E) 9

5.

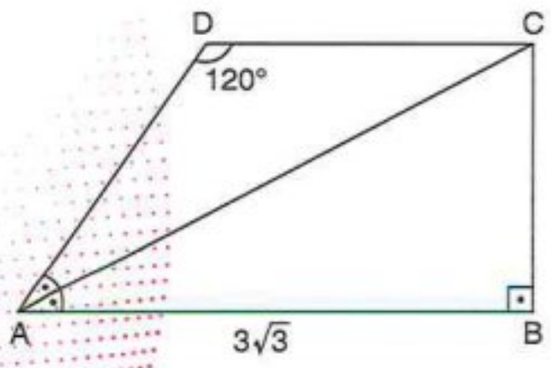


$m(\widehat{ACB}) = 60°$
$|AC| = 8$ br
$|BC| = 3$ br

$\Rightarrow$ $\mathbf{|AB| = ?}$

A) 3 B) 4 C) 5 D) 6 E) 7

6.



$[AB] \perp [BC]$
$[DC] \parallel [AB]$
$m(\widehat{DAC}) = m(\widehat{CAB})$
$|AB| = 3\sqrt{3}$ br

$\Rightarrow$ $\mathbf{|DC| = ?}$

A) $2\sqrt{2}$ B) $2\sqrt{3}$ C) $3\sqrt{2}$ D) $3\sqrt{3}$ E) $2\sqrt{5}$

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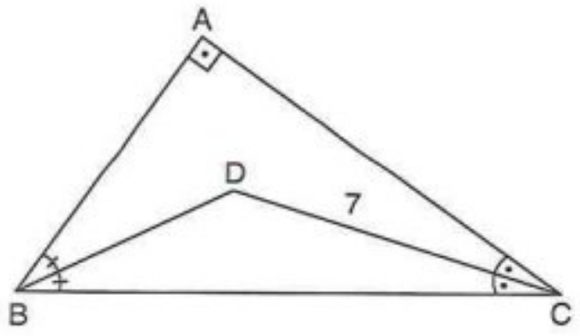
7.

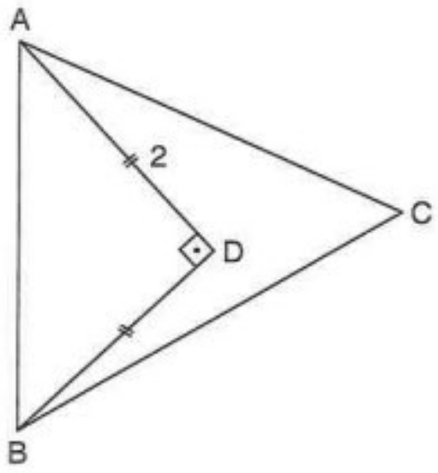


$[AB] \perp [AC]$
$m(\widehat{ABD}) = m(\widehat{DBC})$
$m(\widehat{ACD}) = m(\widehat{DCB})$
$|BD| = 8\sqrt{2}$ br
$|DC| = 7$ br

$\Rightarrow$ **$|BC| = ?$**

A) 10 B) 12 C) 13 D) 17 E) 18

8.

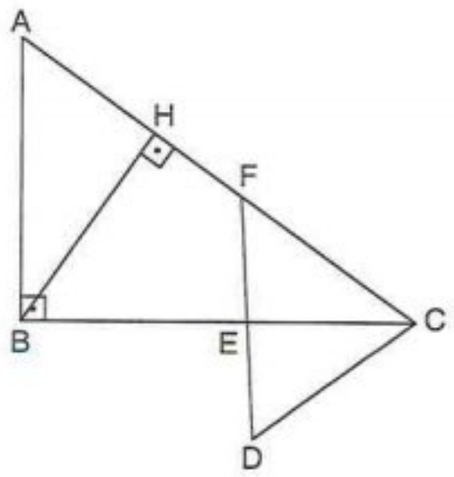


$[AB] \perp [AC]$
$[AD] \perp [BD]$
$m(\widehat{DBC}) = 15°$
$|AD| = |BD| = 2$ br

$\Rightarrow$ **$|AC| = x = ?$**

A) $2\sqrt{2}$ B) $2\sqrt{3}$ C) $2\sqrt{6}$ D) $4\sqrt{2}$ E) 8

9.

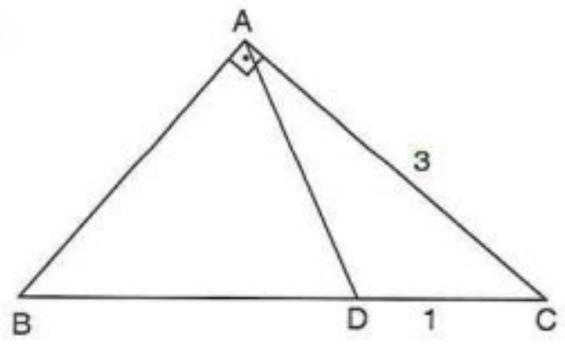


$[AB] \perp [BC]$
$[BH] \perp [AC]$
$[FD] \perp [DC]$
$m(\widehat{ACB}) = m(\widehat{BCD})$
$|AF| = |FC| = 4\sqrt{2}$ br
$|BH| = 4$ br

$\Rightarrow$ **$|DC| = ?$**

A) 3 B) 4 C) 5 D) $2\sqrt{6}$ E) $2\sqrt{7}$

10.

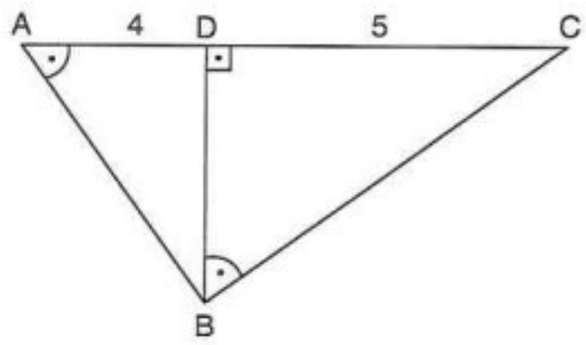


$[AB] \perp [AC]$
$2m(\widehat{DAC}) = m(\widehat{ABC})$
$|AC| = 3$ br
$|DC| = 1$ br

$\Rightarrow$ **$|BD| = ?$**

A) 2 B) 3 C) 4 D) 6 E) 9

11.

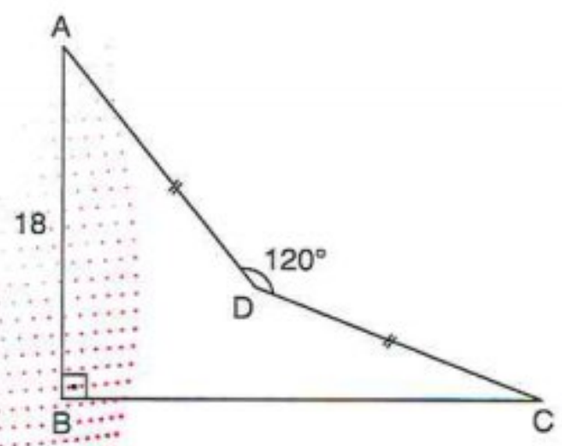


$[BD] \perp [AC]$
$m(\widehat{BAC}) = m(\widehat{DBC})$
$|AD| = 4$ br
$|DC| = 5$ br

$\Rightarrow$ **$|AB| = ?$**

A) 5 B) 6 C) 7 D) 8 E) 10

12.



$[AB] \perp [BC]$
$m(\widehat{ADC}) = 120°$
$|AD| = |DC|$
$|AB| = 18$ br
$|BC| = 24$ br

$\Rightarrow$ **$|AD| = ?$**

A) 30 B) $15\sqrt{3}$ C) $3\sqrt{15}$ D) $10\sqrt{3}$ E) $3\sqrt{10}$

1. C	2. B	3. D	4. D	5. E	6. B
7. D	8. C	9. B	10. C	11. B	12. D

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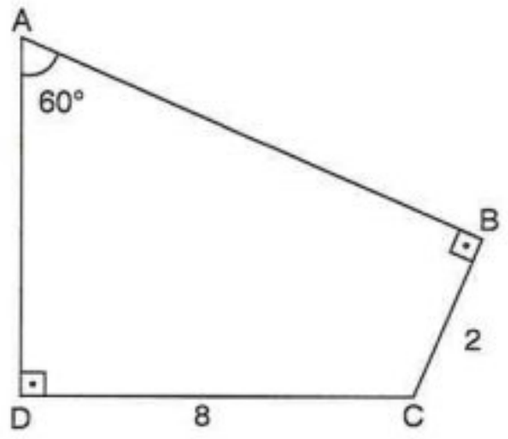
1.

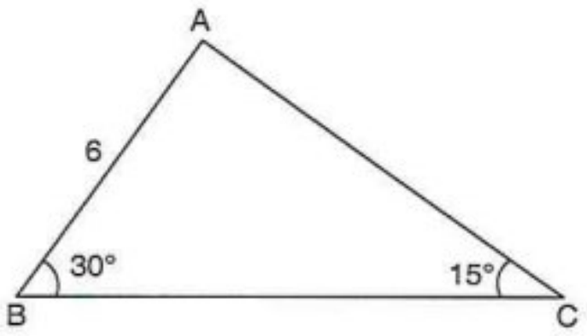


$[AB] \perp [BC]$
$[AD] \perp [DC]$
$m(\widehat{BAD}) = 60°$
$|BC| = 2$ br
$|DC| = 8$ br

⇒ $|\mathbf{AD}| = ?$

A) $2\sqrt{3}$ B) $4\sqrt{3}$ C) $5\sqrt{3}$ D) $6\sqrt{3}$ E) $8\sqrt{3}$

2.

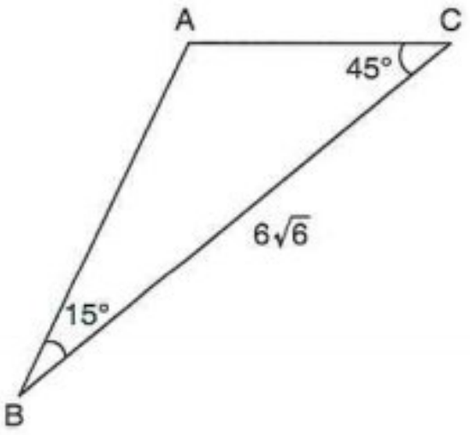


$m(\widehat{ABC}) = 30°$
$m(\widehat{ACB}) = 15°$
$|AB| = 6$ br

⇒ $|\mathbf{BC}| = ?$

A) 6 B) $12\sqrt{3}$ C) $6 + 6\sqrt{3}$
D) $12 + 6\sqrt{3}$ E) $6 + 12\sqrt{3}$

3.

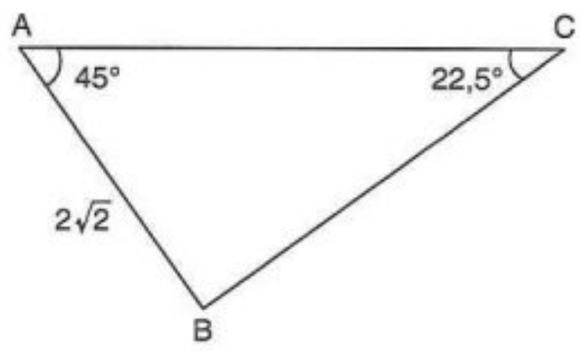


$m(\widehat{ABC}) = 15°$
$m(\widehat{ACB}) = 45°$
$|BC| = 6\sqrt{6}$ br

⇒ $|\mathbf{AB}| = ?$

A) 6 B) $6\sqrt{2}$ C) $6\sqrt{3}$ D) 12 E) 18

4.

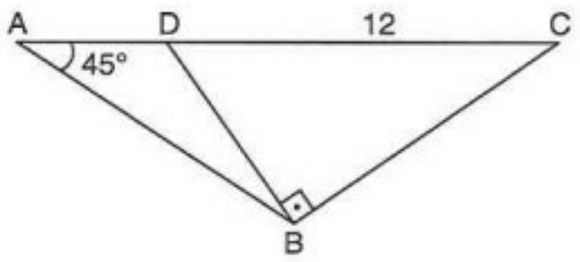


$m(\widehat{BAC}) = 45°$
$m(\widehat{ACB}) = 22,5°$
$|AB| = 2\sqrt{2}$ br

⇒ $|\mathbf{AC}| = ?$

A) $4\sqrt{2}$ B) $4\sqrt{2} + 4$ C) $2 + 4\sqrt{2}$
D) $2\sqrt{2} + 4$ E) 8

5.

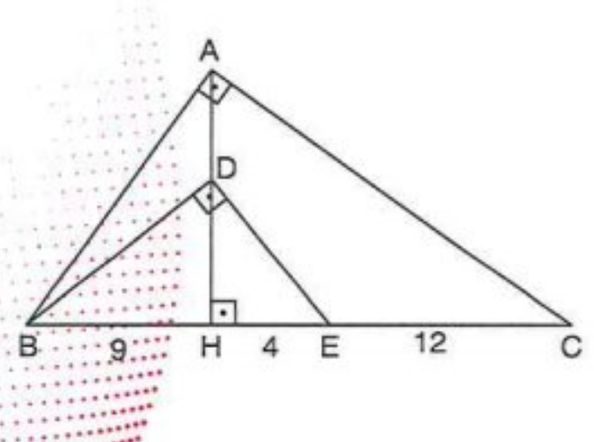


$[BD] \perp [BC]$
$m(\widehat{BAC}) = 45°$
$m(\widehat{ACB}) = 15°$
$|DC| = 12$ br

⇒ $|\mathbf{AB}| = ?$

A) 3 B) $3\sqrt{2}$ C) 6 D) $6\sqrt{2}$ E) 12

6.



$[AB] \perp [AC]$
$[BD] \perp [DE]$
$[AH] \perp [BC]$
$|HE| = 4$ br
$|BH| = 9$ br
$|EC| = 12$ br

⇒ $|\mathbf{AD}| = ?$

A) 3 B) 4 C) 5 D) 6 E) 7

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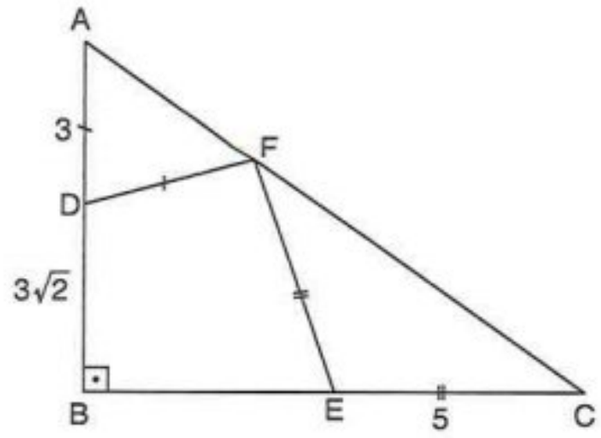
7.



$[AB] \perp [BC]$
$|AD| = |DF| = 3$ br
$|EF| = |EC| = 5$ br
$|BD| = 3\sqrt{2}$ br

⇒ $|BE| = ?$

A) 4 B) 6 C) 8 D) 10 E) 12

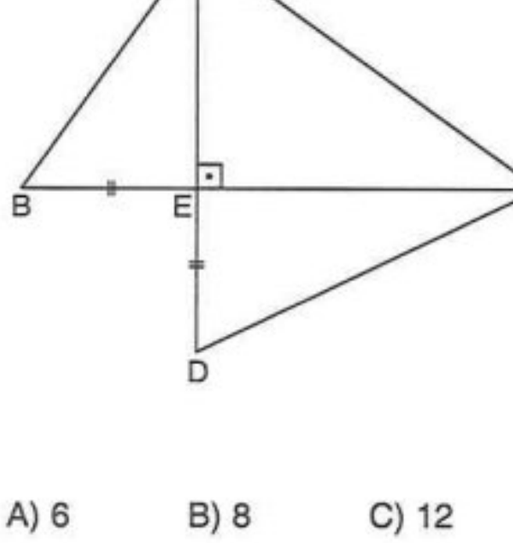
8.

$[AB] \perp [AC]$
$[AD] \perp [BC]$
$|BE| = |ED|$
$|AE| = \sqrt{22}$ br
$|CD| = 10$ br

⇒ $|BC| = ?$

A) 6 B) 8 C) 12 D) 14 E) 16

9.

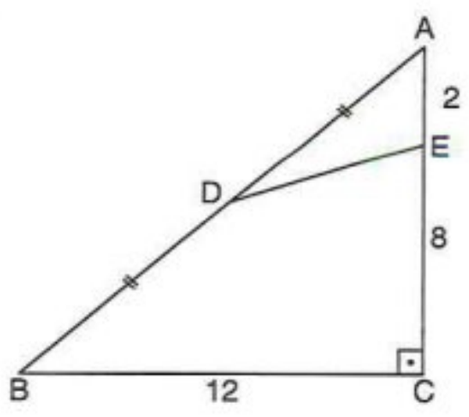


$[AD] \perp [AB]$
$[DC] \perp [BC]$
$|DC| = |DE|$
$|AE| = 4$ br
$|EB| = 2$ br

⇒ $|BC| = x = ?$

A) $2\sqrt{2}$ B) 4 C) $2\sqrt{5}$ D) $4\sqrt{2}$ E) $4\sqrt{5}$

10.

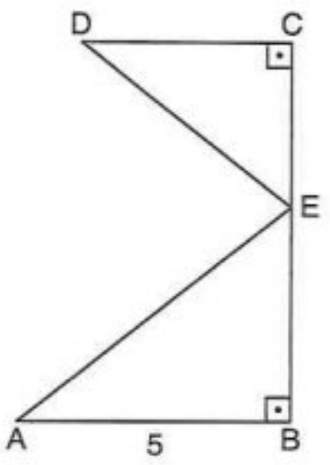


$[AC] \perp [BC]$
$|AD| = |DB|$
$|AE| = 2$ br, $|EC| = 8$ br
$|BC| = 12$ br

⇒ $|DE| = ?$

A) 6 B) $3\sqrt{5}$ C) 7 D) $3\sqrt{7}$ E) $\sqrt{61}$

11.



$[AB] \perp [BC]$
$[DC] \perp [BC]$
$|DC| = 3$ br
$|AB| = 5$ br
$|BC| = 4\sqrt{5}$ br

⇒ $\min(|DE| + |AE|) = ?$

A) 12 B) 13 C) 15 D) 16 E) 18

12.

$[AB] \perp [BC]$
$[BC] \perp [DC]$
$|BC| = 6\sqrt{2}$ br
$|DC| = 3$ br
$|AB| = 4$ br

⇒ $\min(|AD|) = ?$

A) 7 B) 9 C) 11 D) 13 E) 15

1. B	2. C	3. D	4. D	5. B	6. D
7. A	8. C	9. C	10. B	11. A	12. C

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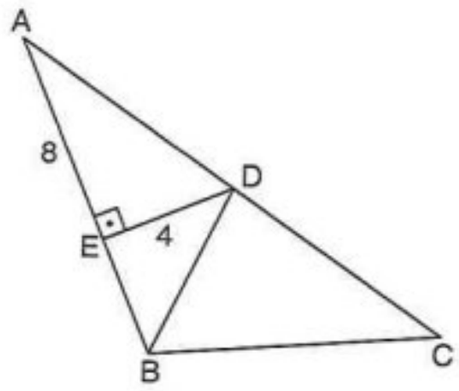
1.

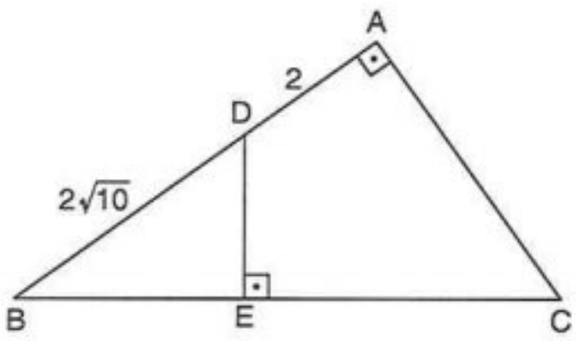


$[AB] \perp [DE]$
$|AC| = 10\sqrt{5}$ br
$|AE| = 8$ br
$|ED| = 4$ br
$|EB| = 2$ br

$\Rightarrow$ $|\mathbf{BC}| = ?$

A) 10 B) $8\sqrt{3}$ C) $8\sqrt{5}$ D) $10\sqrt{2}$ E) $10\sqrt{3}$

2.

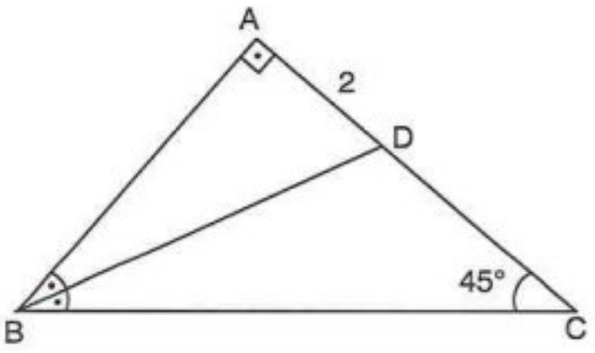


$[AB] \perp [AC]$
$[DE] \perp [BC]$
$|BE| = |EC|$
$|BD| = 2\sqrt{10}$ br
$|AD| = 2$ br

$\Rightarrow$ $|\mathbf{AC}| = ?$

A) 5 B) $5\sqrt{2}$ C) $4\sqrt{6}$ D) 6 E) $2\sqrt{11}$

3.

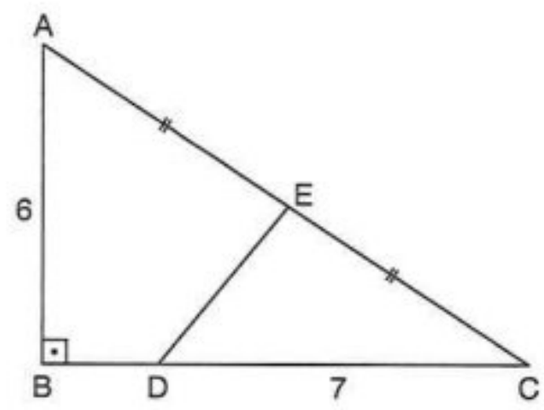


$[AB] \perp [AC]$
$m(\widehat{ACB}) = 45°$
$m(\widehat{ABD}) = m(\widehat{DBC})$
$|AD| = 2$ br

$\Rightarrow$ $|\mathbf{BC}| = ?$

A) $2\sqrt{2}$ B) $2+2\sqrt{2}$ C) $4+2\sqrt{2}$ D) $4\sqrt{2}$ E) $1+2\sqrt{2}$

4.

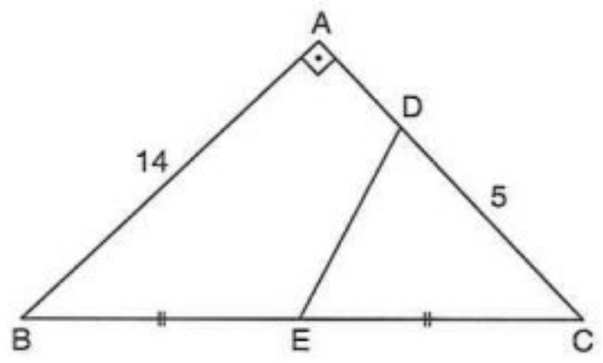


$[AB] \perp [BC]$
$|AE| = |EC|$
$|DC| = 7$ br
$|AB| = 6$ br
$|BD| = 1$ br

$\Rightarrow$ $\mathbf{m(\widehat{BDE}) = ?}$

A) 100^0 B) 120^0 C) 135^0 D) 145^0 E) 150^0

5.

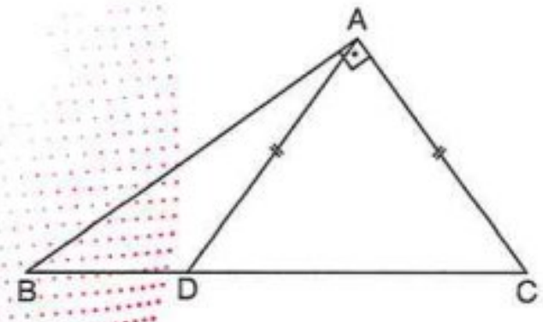


$[AB] \perp [AC]$
$|BE| = |EC|$
$|AB| = 14$ br
$|DC| = 5$ br
$|AD| = 3$ br

$\Rightarrow$ $|\mathbf{DE}| = ?$

A) $4\sqrt{3}$ B) 7 C) $5\sqrt{2}$ D) $3\sqrt{6}$ E) 8

6.



$[AB] \perp [AC]$
$|AD| = |AC| = 2\sqrt{11}$ br
$|DC| = 8$ br

$\Rightarrow$ $|\mathbf{BD}| = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

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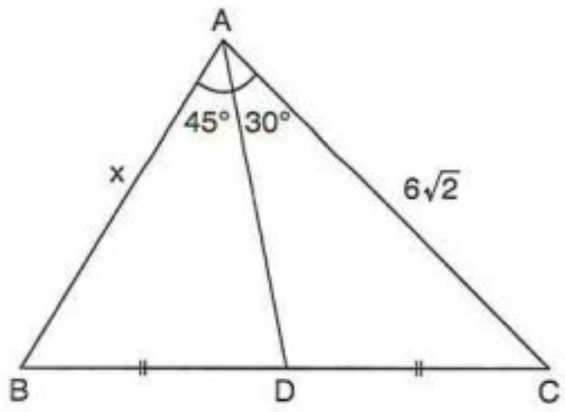
7.

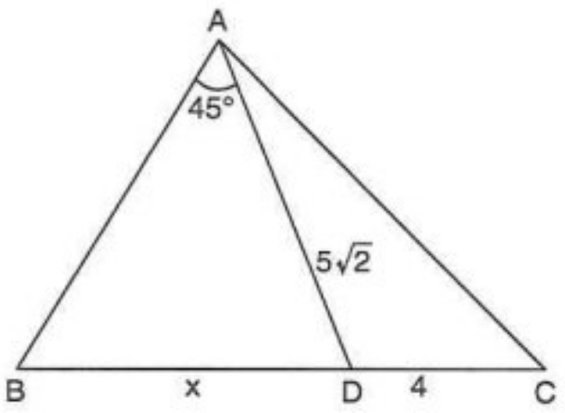


$m(\widehat{BAD}) = 45°$
$m(\widehat{DAC}) = 30°$
$|BD| = |DC|$
$|AC| = 6\sqrt{2}$ br

⇒ $|AB| = x = ?$

A) $6\sqrt{2}$ B) $2\sqrt{3}$ C) $6\sqrt{3}$ D) $3\sqrt{6}$ E) 6

8.

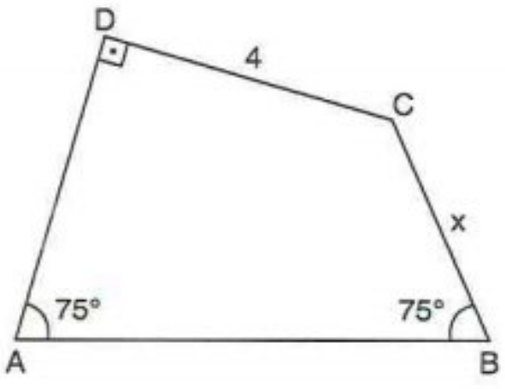


$|AB| = |BC|$
$m(\widehat{BAD}) = 45°$
$|AD| = 5\sqrt{2}$ br
$|DC| = 4$ br

⇒ $|BD| = ?$

A) 10 B) 11 C) 12 D) 13 E) 14

9.

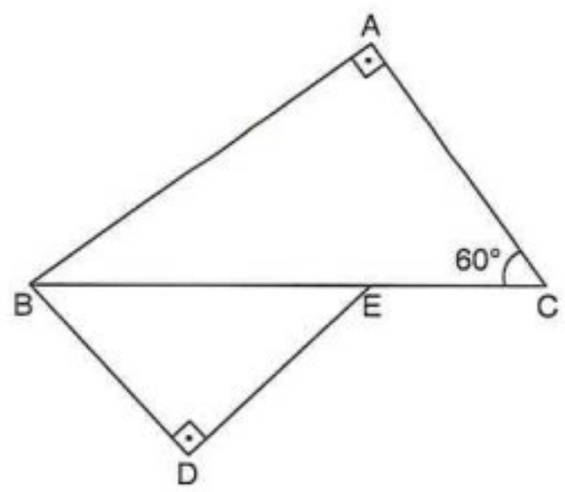


$[AD] \perp [DC]$
$m(\widehat{BAD}) = m(\widehat{ABC}) = 75°$
$|AD| = 2\sqrt{3}$ br
$|DC| = 4$ br

⇒ $|BC| = x = ?$

A) $6\sqrt{3} - 4$ B) $4\sqrt{3} - 3$ C) $6\sqrt{2} - 8$ D) $6\sqrt{3} - 8$ E) $4\sqrt{2} + 3$

10.

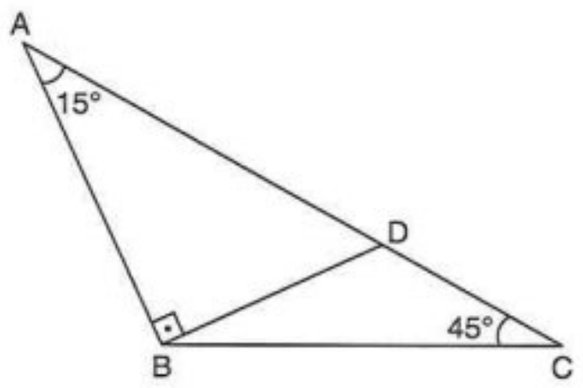


$[AB] \perp [AC]$
$[BD] \perp [DE]$
$2|BE| = 3|EC|$
$m(\widehat{ABD}) = 75°$
$|AB| = 5\sqrt{3}$ br

⇒ $|BD| = ?$

A) 3 B) $3\sqrt{2}$ C) 5 D) $5\sqrt{2}$ E) 6

11.

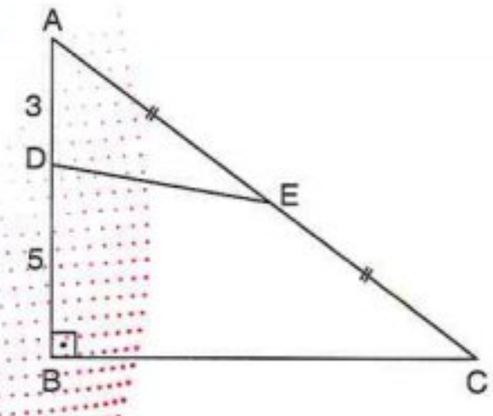


$[AB] \perp [BD]$
$m(\widehat{BCA}) = 45°$
$m(\widehat{BAC}) = 15°$
$|AD| = 20$ br

⇒ $|BC| = ?$

A) $4\sqrt{2}$ B) 5 C) $5\sqrt{2}$ D) 10 E) $10\sqrt{2}$

12.



$[AB] \perp [BC]$
$|AE| = |EC|$
$|BC| = 8\sqrt{3}$ br
$|BD| = 5$ br
$|AD| = 3$ br

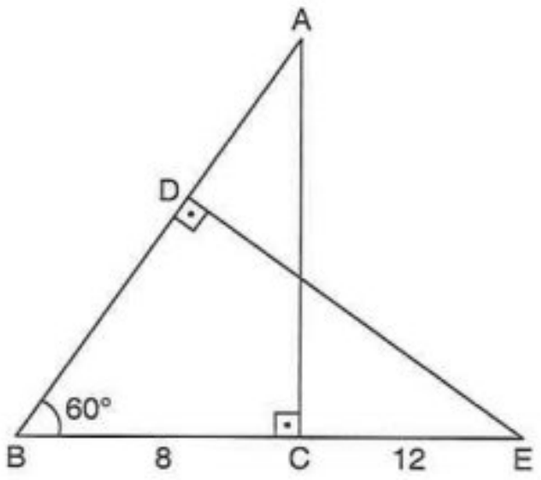
⇒ $|DE| = ?$

A) $4\sqrt{2}$ B) 6 C) $4\sqrt{3}$ D) 7 E) $2\sqrt{13}$

1. D	2. D	3. C	4. C	5. C	6. B
7. E	8. D	9. D	10. B	11. C	12. D

IRANINOVIN
الممسوحة ضوئيا بـ CamScanner

1.

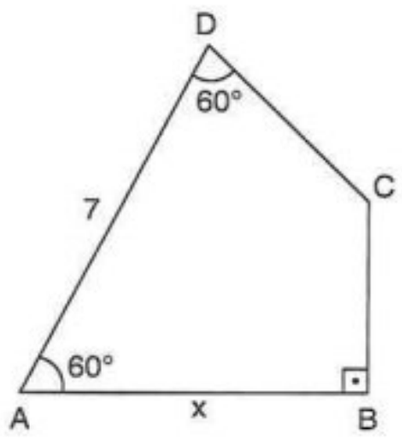


$[AC] \perp [BE]$
$[ED] \perp [AB]$
$m(\widehat{ABE}) = 60°$
$|BC| = 8$ br
$|CE| = 12$ br

⇒ $|AD| = ?$

A) 4 B) 5 C) 6 D) 7 E) 8

2.

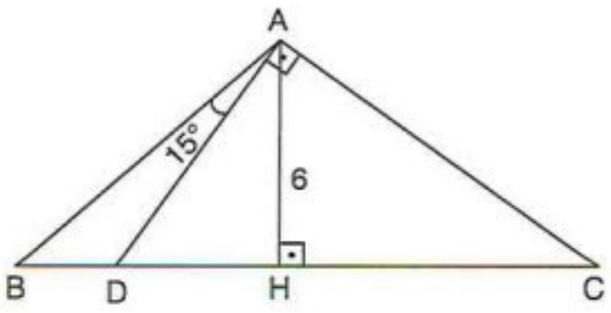


$[AB] \perp [BC]$
$m(\widehat{BAD}) = m(\widehat{ADC}) = 60°$
$|AD| = 7$ br
$|DC| = 2$ br

⇒ $|AB| = x = ?$

A) $\frac{7}{2}$ B) 4 C) $\frac{9}{2}$ D) 5 E) $\frac{11}{2}$

3.

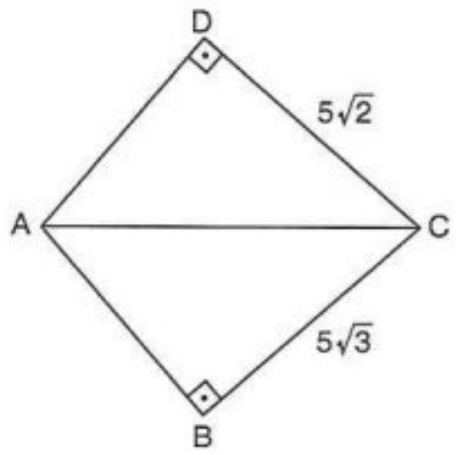


$[AD] \perp [AC]$
$[AH] \perp [BC]$
$m(\widehat{BAD}) = 15°$
$|DC| = 24$ br
$|AH| = 6$ br

⇒ $|AB| = ?$

A) $\sqrt{3}$ B) $2\sqrt{3}$ C) $3\sqrt{3}$ D) $4\sqrt{3}$ E) $6\sqrt{3}$

4.

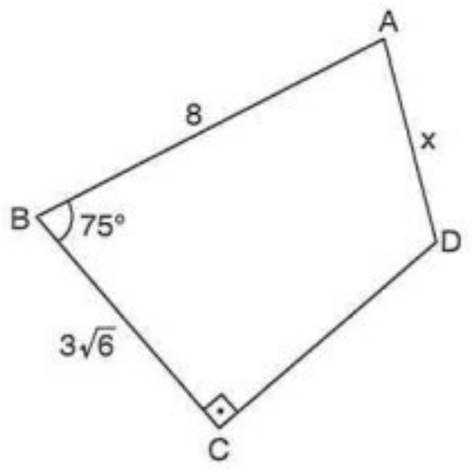


$[AB] \perp [BC]$
$[AD] \perp [DC]$
$|DC| = 5\sqrt{2}$ br
$|BC| = 5\sqrt{3}$ br
$|AC| = 10$ br

⇒ $m(\widehat{BAD}) = ?$

A) 105° B) 110° C) 120° D) 135° E) 150°

5.

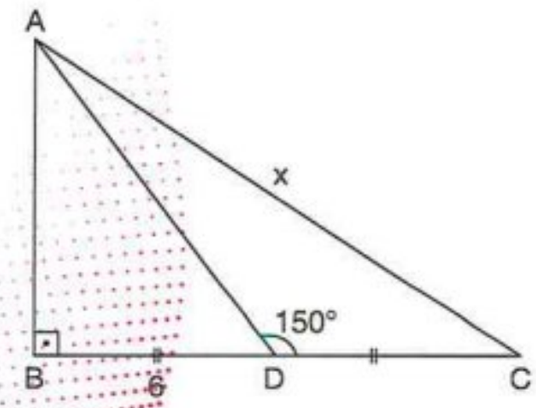


$[BC] \perp [CD]$
$m(\widehat{ABC}) = 75°$
$|AB| = 8$ br
$|BC| = |CD| = 3\sqrt{6}$ br

⇒ $|AD| = x = ?$

A) 10 B) $2\sqrt{13}$ C) $3\sqrt{7}$ D) $2\sqrt{7}$ E) $2\sqrt{5}$

6.



$[AB] \perp [BC]$
$m(\widehat{ADC}) = 150°$
$|BD| = |DC| = 6$ br

⇒ $|AC| = x = ?$

A) $2\sqrt{3}$ B) $4\sqrt{3}$ C) $2\sqrt{13}$ D) $2\sqrt{39}$ E) $12\sqrt{3}$

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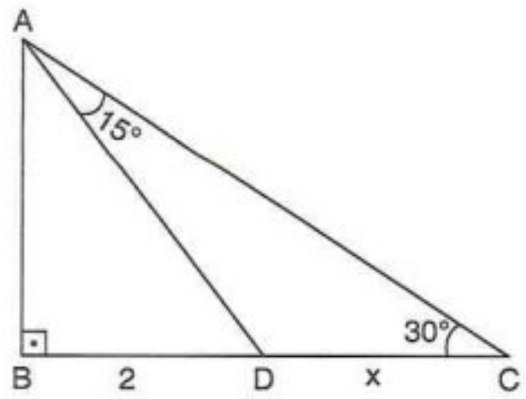
الممسوحة ضوئيا بـ CamScanner

7.

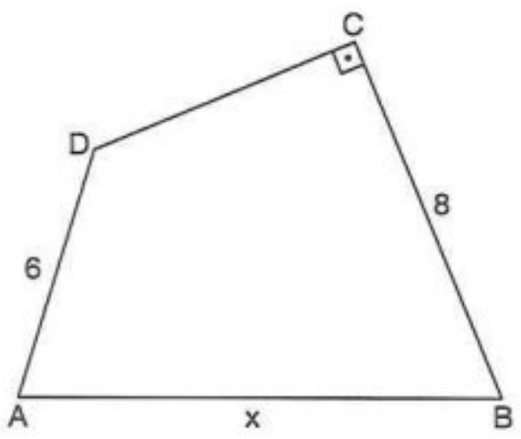


$[AB] \perp [BC]$
$m(\widehat{ACB}) = 30°$
$m(\widehat{DAC}) = 15°$
$|BD| = 2\,br$

$\Rightarrow |DC| = x = ?$

A) $2\sqrt{3}-2$ B) $2\sqrt{2}-2$ C) $2\sqrt{2}-1$ D) $2\sqrt{3}$ E) $2\sqrt{2}$

8.

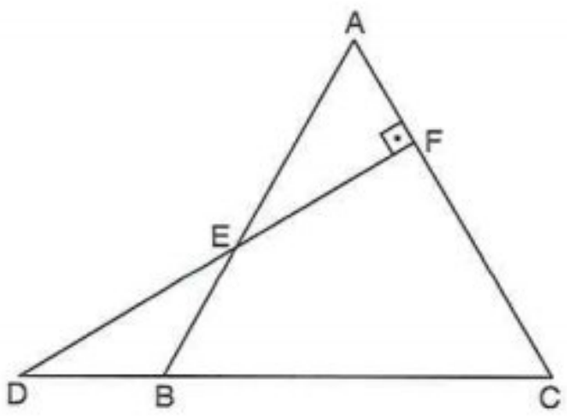


$[DC] \perp [CB]$
$m(\widehat{DAB}) = m(\widehat{ABC}) = 60°$
$|AD| = 6\,br$
$|BC| = 8\,br$

$\Rightarrow |AB| = x = ?$

A) 8 B) 10 C) 12 D) 14 E) 15

9.

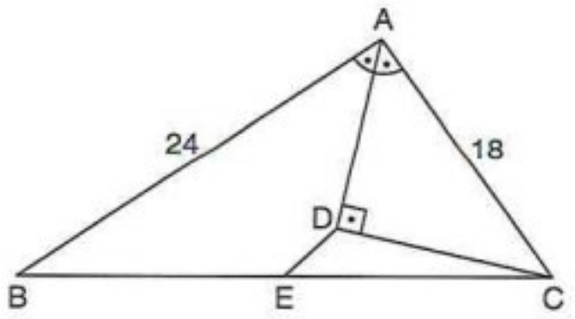


$[DF] \perp [AC]$
$|AB| = |BC| = |AC|$
$|DB| = 8\,br$
$|AC| = 12\,br$

$\Rightarrow |AF| = ?$

A) 6 B) 5 C) 4 D) 3 E) 2

10.

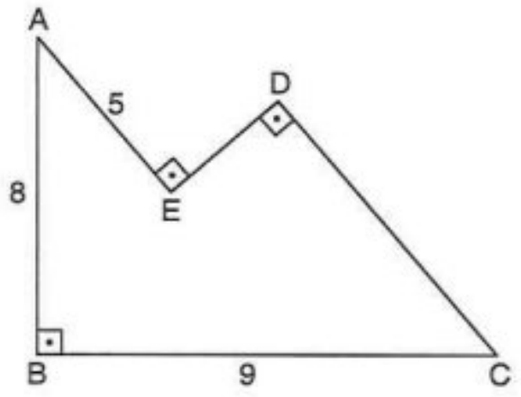


$[AD] \perp [DC]$
$m(\widehat{BAD}) = m(\widehat{DAC})$
$|BE| = |EC|$
$|AB| = 24\,br$
$|AC| = 18\,br$

$\Rightarrow |DE| = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

11.

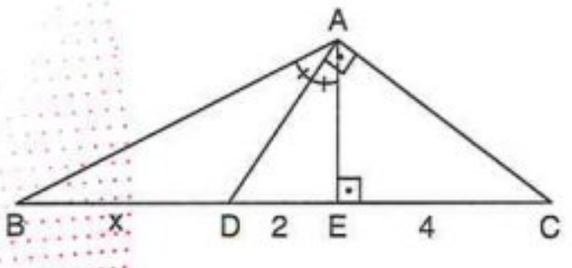


$[AB] \perp [BC]$
$[AE] \perp [ED]$
$[ED] \perp [DC]$
$|AE| = 5\,br$
$|DC| = 7\,br$
$|AB| = 8\,br$
$|BC| = 9\,br$

$\Rightarrow |DE| = ?$

A) 5 B) 4 C) 3 D) 2 E) 1

12.



$[AD] \perp [AC]$
$[AE] \perp [BC]$
$m(\widehat{BAD}) = m(\widehat{DAE})$
$|DE| = 2\,br$
$|EC| = 4\,br$

$\Rightarrow |BD| = x = ?$

A) 1 B) $\frac{3}{2}$ C) 3 D) 4 E) 6

1. C	2. C	3. D	4. A	5. D	6. D
7. A	8. B	9. E	10. C	11. E	12. E

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الممسوحة ضوئيا بـ CamScanner

İKİZKENAR-EŞKENAR ÜÇGEN

ISOSCELES-EQUILATERAL TRIANGLE

KONU KAVRAMA TESTİ
Thread Grip Test

ZİHİN HARİTASI
Mind Map

7
TEST
Tests

132
SORU
Questions

CANER eğitim kurumları YÖS

IRANINOVIN

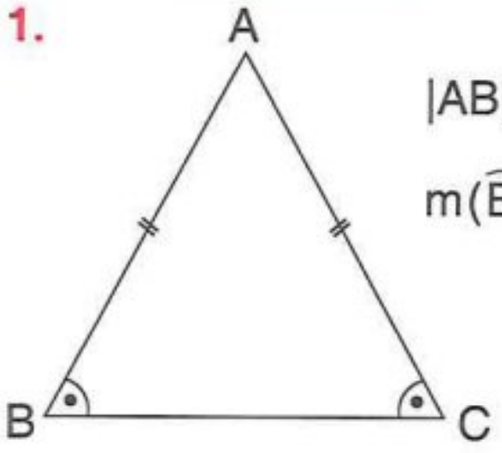
الممسوحة ضوئيا بـ CamScanner

İKİZKENAR – EŞKENAR ÜÇGEN
ISOSCELES – EQUILATERAL TRIANGLE

CANER eğitim kurumları

İKİZKENAR ÜÇGEN
isosceles triangle

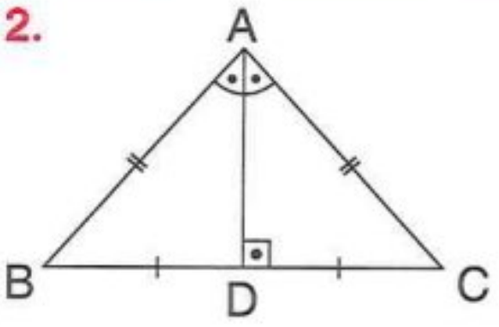
1.



$|AB| = |AC|$

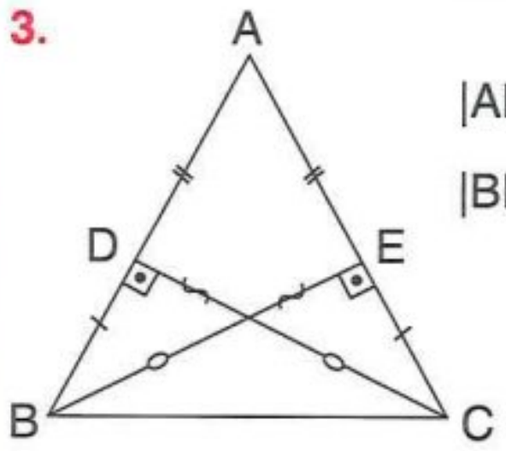
$m(\widehat{B}) = m(\widehat{C})$

2.



- Yükseklik
- Açıortay
- Kenarortay
- İkizkenar üçgen

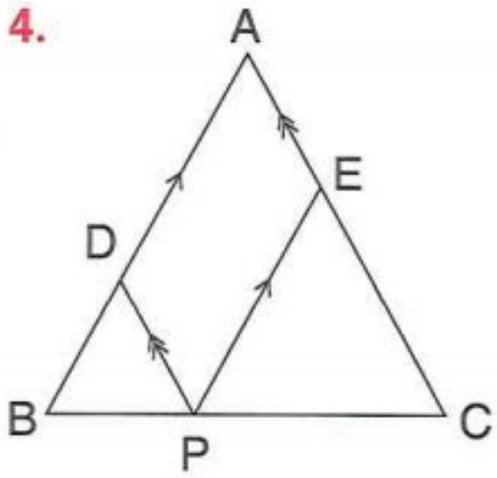
3.



$|AB| = |AC|$

$|BE| = |CD|$

4.



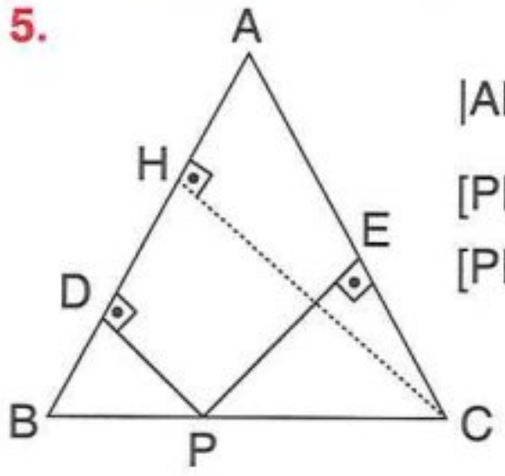
$|AB| = |AC|$

$[PD] \,//\, [AC]$
$[PE] \,//\, [AB]$

$|PD| + |PE| = |AC|$

$|BD| = |DP| = |AE|$
$|EP| = |EC| = |AD|$

5.

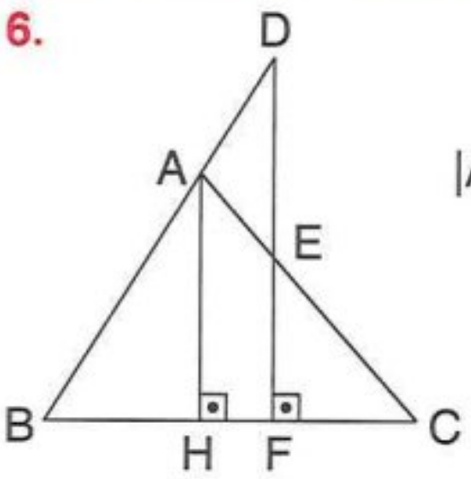


$|AB| = |AC|$

$[PD] \perp [AB]$
$[PE] \perp [AC]$

$|PD| + |PE| = |CH|$

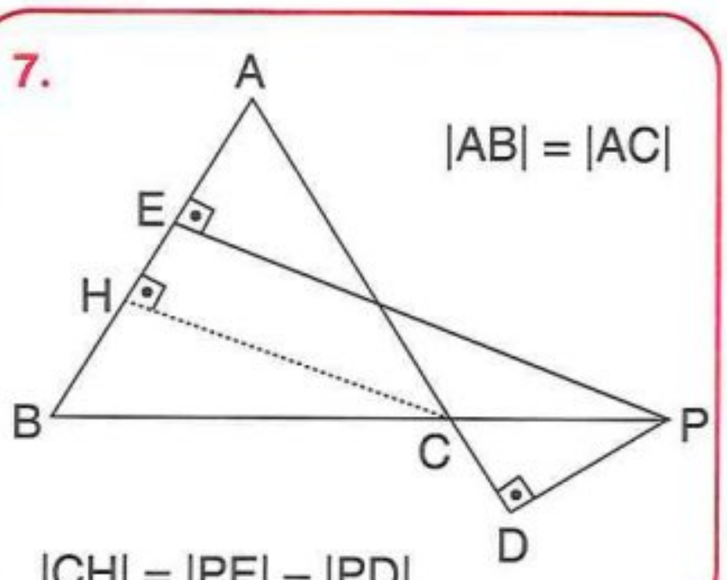
6.



$|AB| = |AC|$

$|AH| = |EF| + \frac{|DE|}{2}$

7.

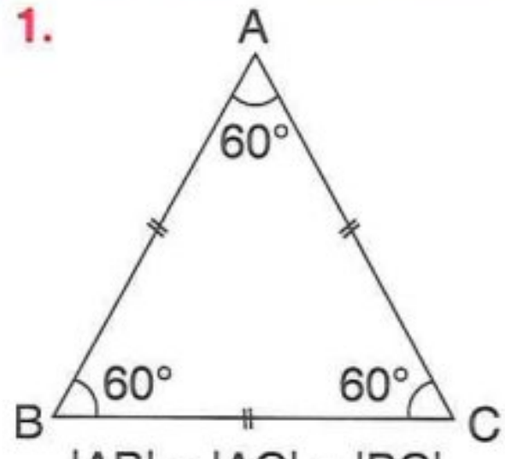


$|AB| = |AC|$

$|CH| = |PE| - |PD|$

EŞKENAR ÜÇGEN
Equilateral triangle

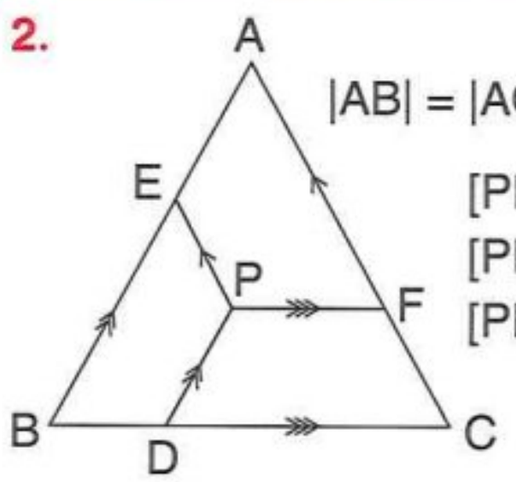
1.



$|AB| = |AC| = |BC|$

$m(\widehat{A}) = m(\widehat{B}) = m(\widehat{C}) = 60°$

2.

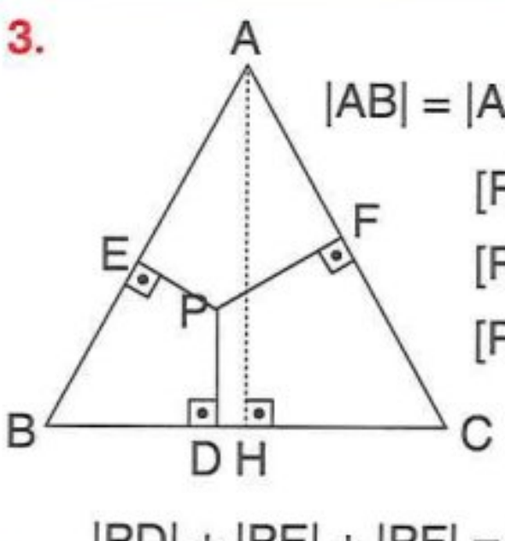


$|AB| = |AC| = |BC|$

$[PD] \,//\, [AB]$
$[PE] \,//\, [AC]$
$[PF] \,//\, [BC]$

$|PD| + |PE| + |PF| = |AB|$

3.

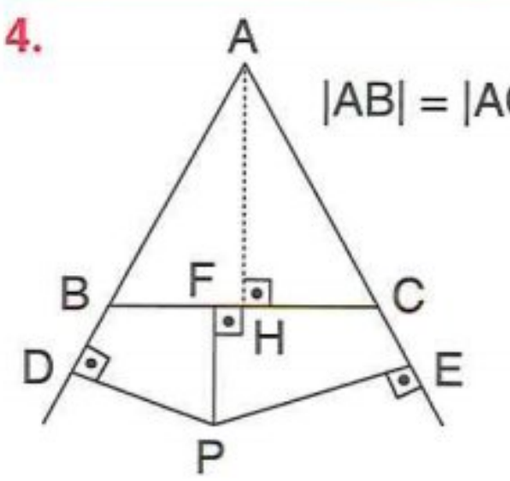


$|AB| = |AC| = |BC|$

$[PD] \perp [BC]$
$[PE] \perp [AB]$
$[PF] \perp [AC]$

$|PD| + |PE| + |PF| = |AH|$

4.



$|AB| = |AC| = |BC|$

$|PD| + |PE| - |PF| = |AH|$

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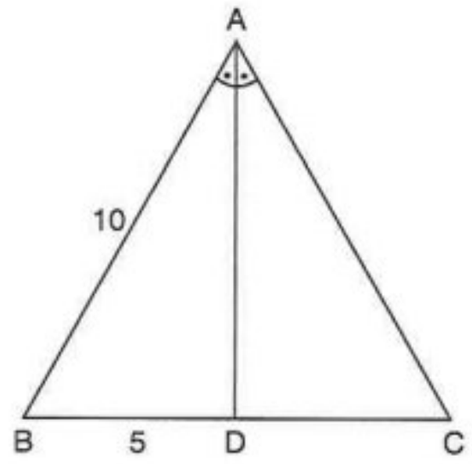
1.

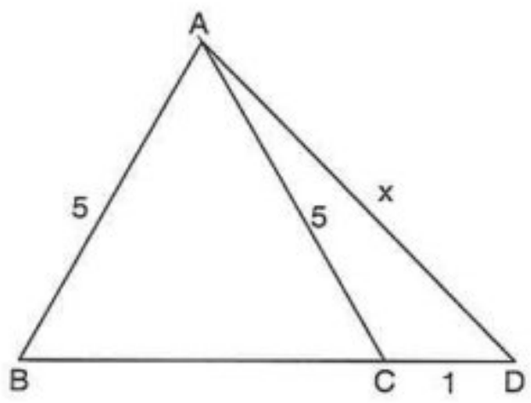


$|AB| = |AC|$
[AD] açıortay *(bisector)*
$|AB| = 10$ br
$|BD| = 5$ br

⇒ $|\mathbf{AD}| = ?$

A) 5 B) $5\sqrt{2}$ C) $5\sqrt{3}$ D) 9 E) $3\sqrt{10}$

2.

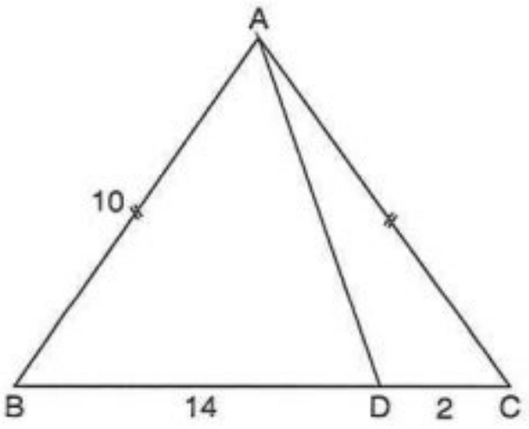


$|AB| = |AC| = 5$ br
$|CD| = 1$ br
$|BC| = 6$ br

⇒ $|\mathbf{AD}| = \mathbf{x} = ?$

A) 3 B) 4 C) $3\sqrt{3}$ D) $4\sqrt{2}$ E) $4\sqrt{5}$

3.

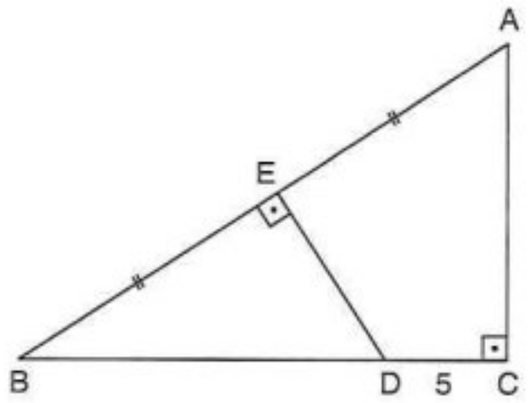


$|AB| = |AC| = 10$ br
$|BD| = 14$ br
$|DC| = 2$ br

⇒ $|\mathbf{AD}| = ?$

A) 7 B) 8 C) $6\sqrt{2}$ D) $6\sqrt{3}$ E) $8\sqrt{2}$

4.

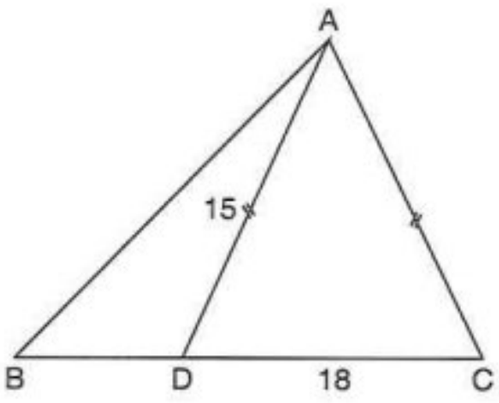


$[AC] \perp [BC]$
$[DE] \perp [AB]$
$|AE| = |EB|$
$|AC| = 12$ br
$|DC| = 5$ br

⇒ $|\mathbf{BD}| = ?$

A) 9 B) 12 C) 13 D) 15 E) 17

5.

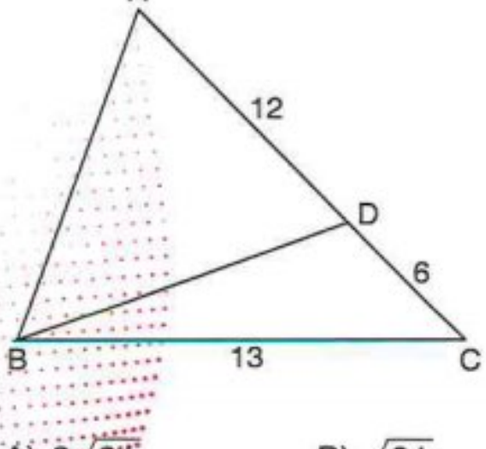


$|AD| = |AC| = 15$ br
$|DC| = 18$ br
$|BD| = 7$ br

⇒ $|\mathbf{AB}| = ?$

A) 12 B) $12\sqrt{2}$ C) 15 D) $15\sqrt{2}$ E) 20

6.



$|AB| = |BD|$
$|BC| = 13$ br
$|AD| = 12$ br
$|DC| = 6$ br

⇒ $|\mathbf{AB}| = ?$

A) $2\sqrt{21}$ B) $\sqrt{61}$ C) 8 D) $2\sqrt{21}$ E) 10

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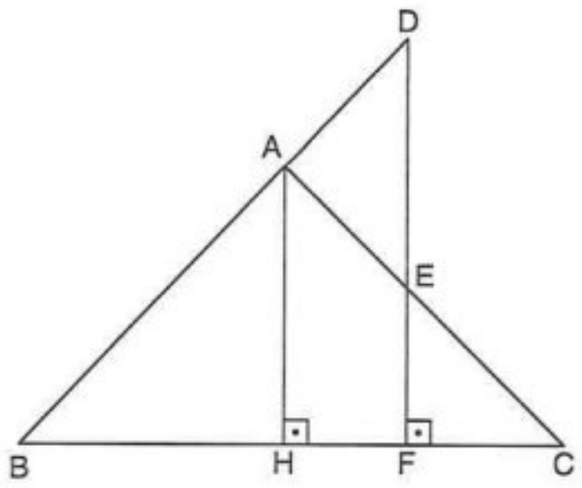
7.

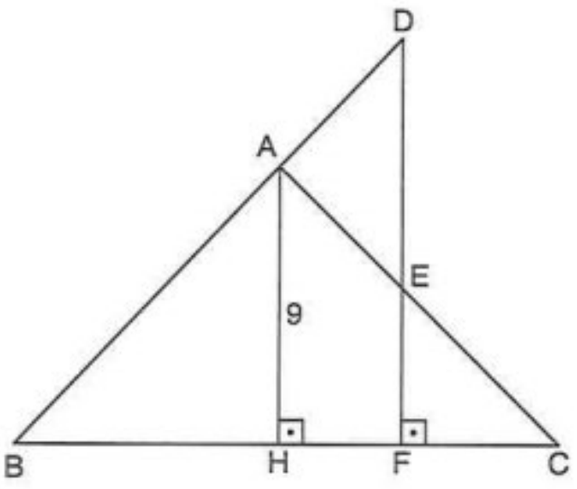


$[AH] \perp [BC]$
$[DF] \perp [BC]$
$|AB| = |AC|$
$|EF| = 3\,br$
$|DE| = 10\,br$

$\Rightarrow |\mathbf{AH}| = ?$

A) 5 B) 6 C) 7 D) 8 E) 9

8.

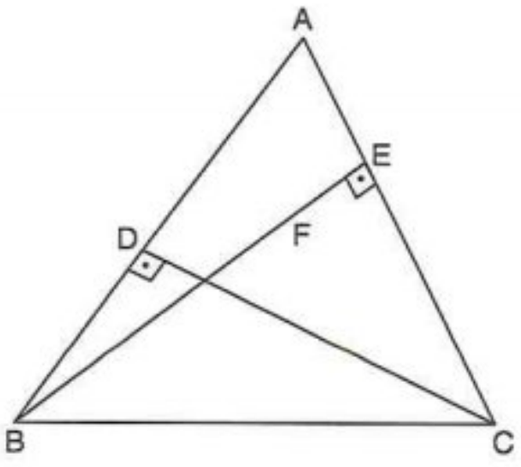


$[AH] \perp [BC]$
$[DF] \perp [BC]$
$|BH| = |HC|$
$|AH| = 9\,br$
$|EF| = 4\,br$

$\Rightarrow |\mathbf{DE}| = ?$

A) 6 B) 8 C) 9 D) 10 E) 12

9.

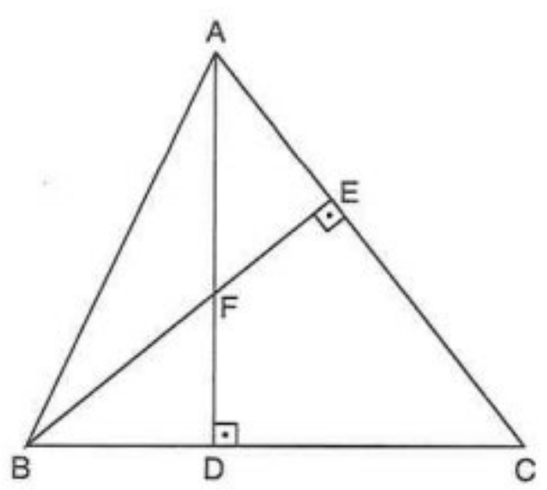


$[BE] \perp [AC]$
$[CD] \perp [AB]$
$|AB| = |AC|$
$|AE| = 6\,br$
$|BD| = 4\,br$
$|DF| = 3\,br$

$\Rightarrow |\mathbf{BC}| = ?$

A) 4 B) $4\sqrt{2}$ C) $4\sqrt{5}$ D) $8\sqrt{5}$ E) 10

10.

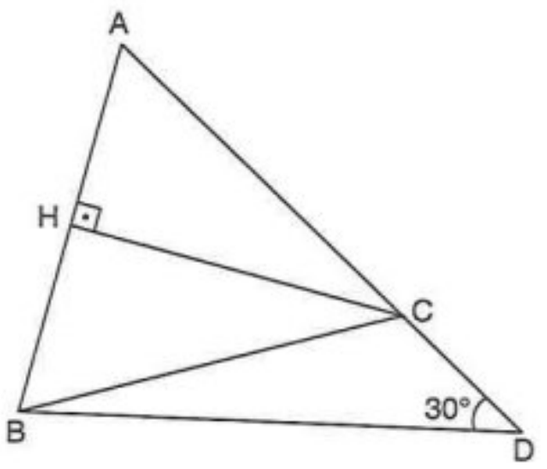


$[AD] \perp [BC]$
$[BE] \perp [AC]$
$|AC| = |BC|$
$|FE| = 5\,br$
$|BD| = 12\,br$

$\Rightarrow |\mathbf{AD}| = ?$

A) 12 B) 16 C) 18 D) 20 E) 25

11.

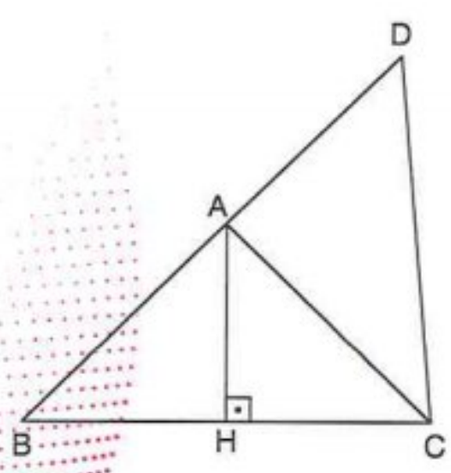


$[CH] \perp [AB]$
$|AB| = |AC|$
$m(\widehat{BDA}) = 30°$
$|CH| = 6\,br$

$\Rightarrow |\mathbf{BD}| = \mathbf{x} = ?$

A) 6 B) 8 C) 10 D) 12 E) 16

12.



$[AH] \perp [BC]$
$|AB| = |BC|$
$m(\widehat{BDC}) = 60°$
$|AH| = 12\,br$

$\Rightarrow |\mathbf{DC}| = ?$

A) $6\sqrt{5}$ B) $12\sqrt{2}$ C) $8\sqrt{3}$ D) $12\sqrt{3}$ E) 24

1. C	2. D	3. C	4. C	5. E	6. B
7. D	8. D	9. C	10. C	11. D	12. C

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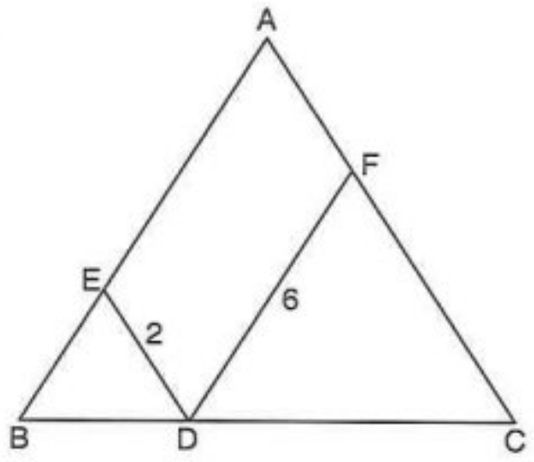
13.

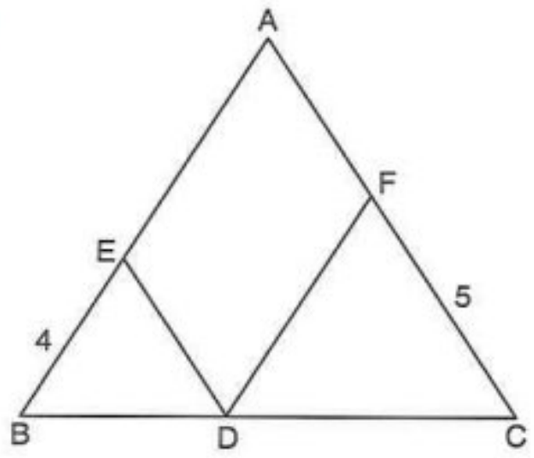


$[DE] /\!/ [AC]$
$[DF] /\!/ [AB]$
$|AB| = |AC|$
$|BC| = 10\,br$
$|DF| = 6\,br$
$|DE| = 2\,br$

⇒ **Ç(ABC) = ?**

A) 16 B) 20 C) 24 D) 26 E) 32

14.

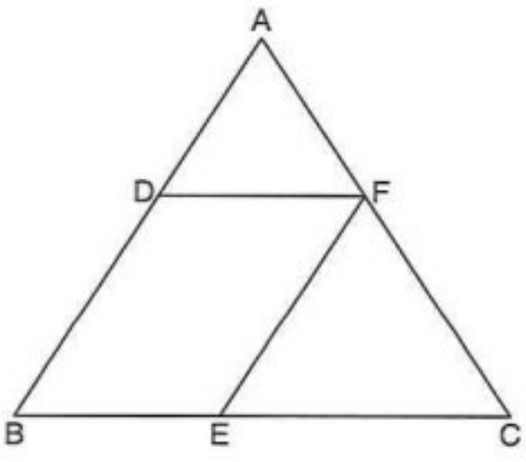


$[DE] /\!/ [AC]$
$[DF] /\!/ [AB]$
$|AB| = |AC|$
$|BE| = 4\,br$
$|FC| = 5\,br$

⇒ **Ç(AEDF) = ?**

A) 8 B) 12 C) 16 D) 18 E) 24

15.

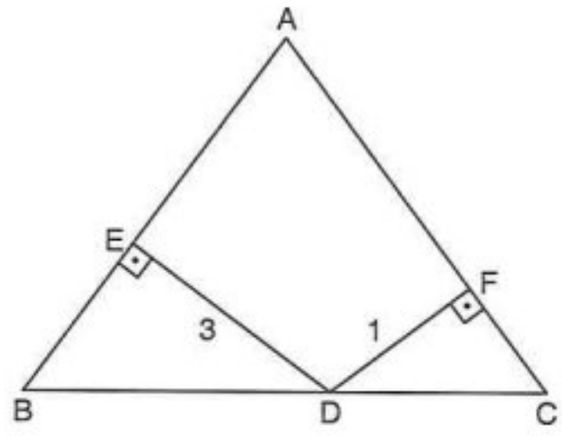


$[DF] /\!/ [BC]$
$[EF] /\!/ [AB]$
$|AB| = |BC|$
$|AC| = 10\,br$
$|DF| = 3\,br$
$Ç(ABC) = 20\,br$

⇒ **|EF| = ?**

A) 2 B) 3 C) 5 D) 6 E) 8

16.

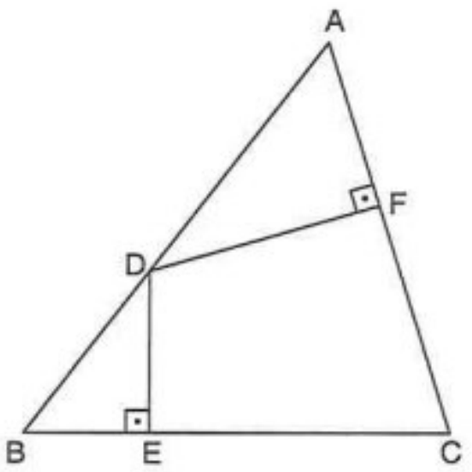


$[DF] \perp [AC]$
$[DE] \perp [AB]$
$|AB| = |AC|$
$m(\widehat{BAC}) = 45°$
$|DF| = 1\,br$
$|ED| = 3\,br$

⇒ **|AB| = ?**

A) 4 B) $4\sqrt{2}$ C) $4\sqrt{3}$ D) 6 E) 8

17.

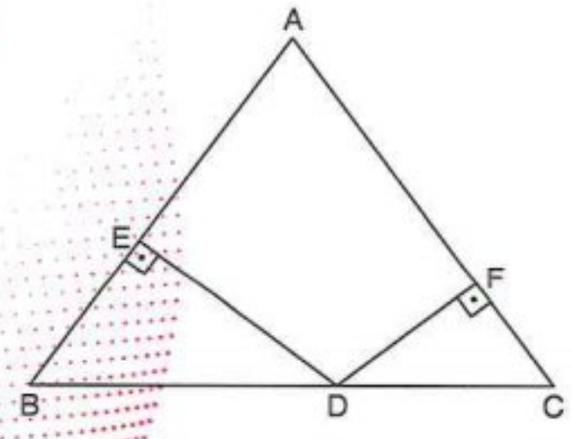


$[DE] \perp [BC]$
$[DF] \perp [AC]$
$|AC| = |BC|$
$m(\widehat{ACB}) = 30°$
$|DF| = 3\,br$
$|DE| = 2\,br$

⇒ **|AC| = ?**

A) $5\sqrt{2}$ B) $5\sqrt{3}$ C) 10 D) $10\sqrt{3}$ E) $10\sqrt{5}$

18.



$[DE] \perp [AB]$
$[DF] \perp [AC]$
$|AB| = |AC| = 17\,br$
$|DF| = 3\,br$
$|DE| = 5\,br$

⇒ **|BC| = ?**

A) $\sqrt{54}$ B) $2\sqrt{13}$ C) $2\sqrt{17}$ D) $5\sqrt{2}$ E) 17

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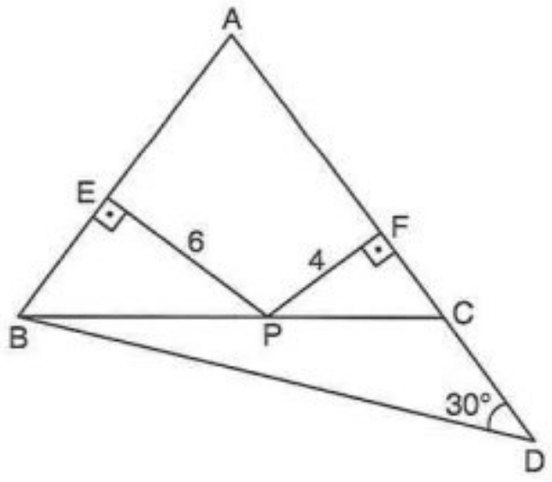
19.

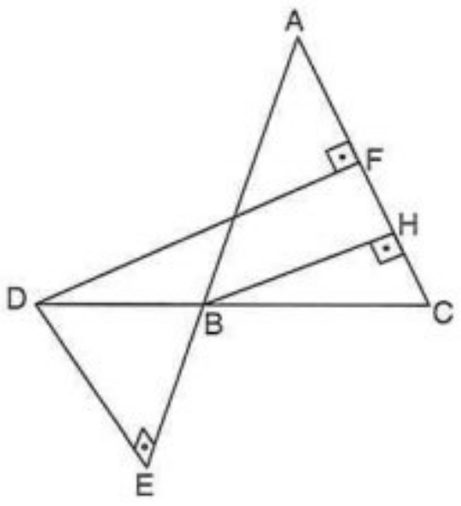


$[PE] \perp [AB]$
$[PF] \perp [AD]$
$m(\widehat{ADB}) = 30^\circ$
$|AB| = |AC|$
$|PE| = 6\,br$
$|PF| = 4\,br$

$\Rightarrow |\mathbf{BD}| = ?$

A) $10\sqrt{2}$ B) $5\sqrt{5}$ C) $10\sqrt{3}$ D) 20 E) 125

20.

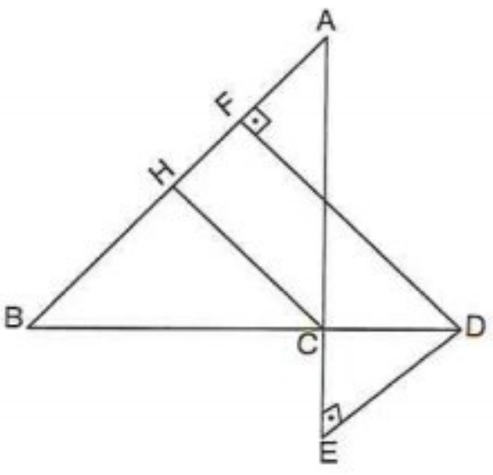


$[DF] \perp [AC]$
$[DE] \perp [AE]$
$[BH] \perp [AC]$
$|AB| = |AC|$
$|DF| = 12\,br$
$|DE| = 4\,br$

$\Rightarrow |\mathbf{BH}| = ?$

A) 6 B) 7 C) 8 D) 9 E) 10

21.

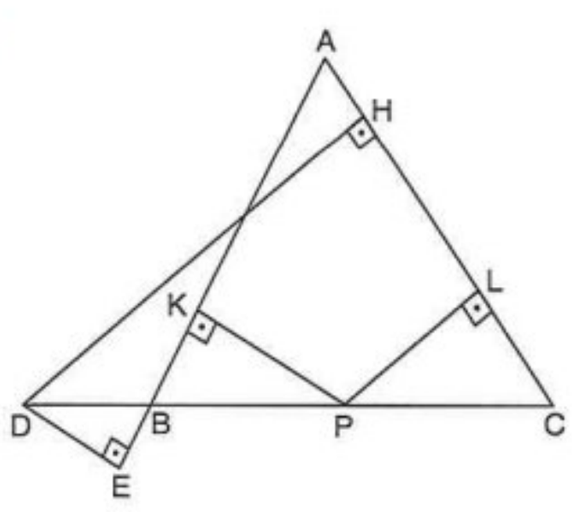


$[DE] \perp [AE]$
$[DF] \perp [AB]$
$[CH] \perp [AB]$
$|AB| = |AC|$
$|DF| = 16,\ |CH| = 10$

$\Rightarrow |\mathbf{ED}| = ?$

A) 2 B) 4 C) 6 D) 8 E) 10

22.

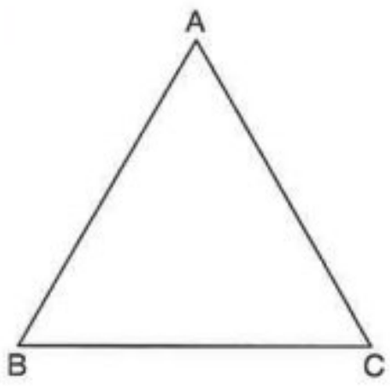


$[DH] \perp [AC]$
$[PK] \perp [AE]$
$[PL] \perp [AC]$
$[DE] \perp [AE]$
$|AB| = |AC|$
$|DH| = 14\,br$
$|PL| = 5\,br$
$|DE| = 3br$

$\Rightarrow |\mathbf{PK}| = ?$

A) 4 B) 6 C) 7 D) 9 E) 10

23.

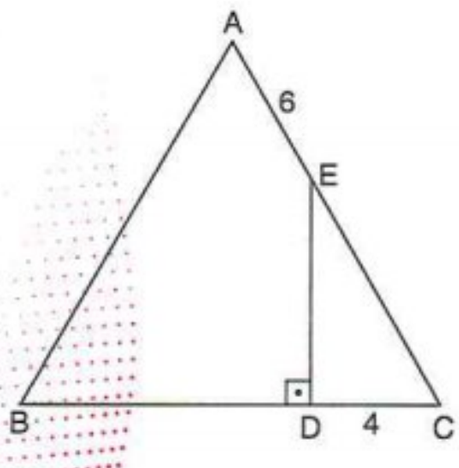


ABC eşkenar üçgen
ABC equilateral triangle
$|AC| = (x+7)\,br$
$|BC| = (2x-3)\,br$

$\Rightarrow \mathbf{x = ?}$

A) 9 B) 10 C) 11 D) 12 E) 13

24.



ABC eşkenar üçgen
ABC equilateral triangle
$[ED] \perp [BC]$
$|AE| = 6\,br$
$|DC| = 4\,br$

$\Rightarrow |\mathbf{BD}| = \mathbf{x} = ?$

A) 6 B) 8 C) 10 D) 12 E) 14

13. D	14. D	15. A	16. B	17. C	18. C
19. D	20. C	21. C	22. B	23. B	24. C

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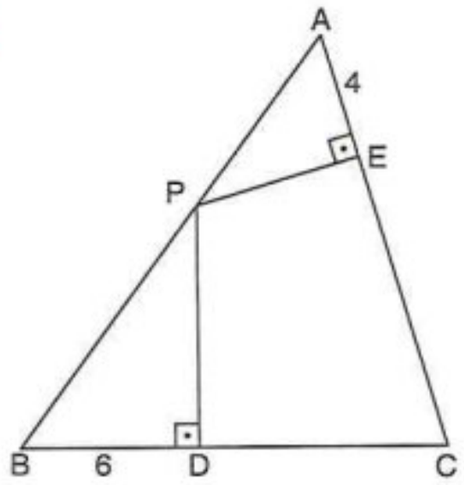
25.

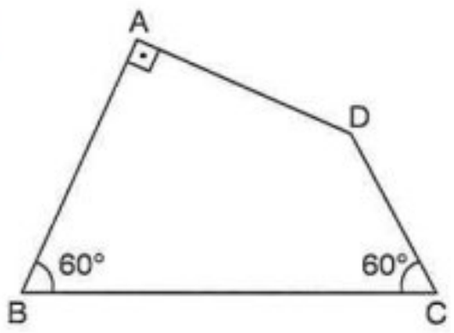


ABC eşkenar üçgen
ABC equilateral triangle
$[PE] \perp [AC]$
$[PD] \perp [BC]$
$|AE| = 4$ br
$|BD| = 6$ br

⇒ $|\mathbf{AB}| = ?$

A) 6 B) 8 C) 10 D) 16 E) 20

26.

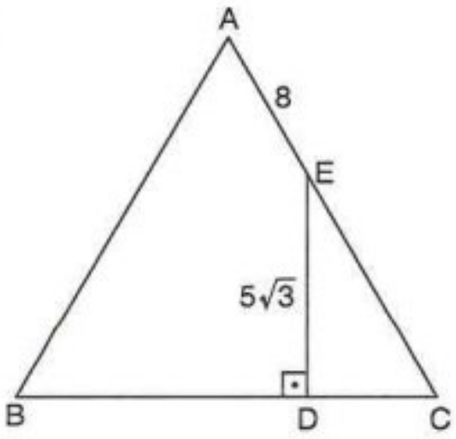


$[AB] \perp [AD]$
$m(\widehat{ABC}) = 60°$
$m(\widehat{BCD}) = 60°$
$|AB| = 10$ br
$|DC| = 4$ br

⇒ $|\mathbf{BC}| = ?$

A) 12 B) 14 C) 16 D) 18 E) 20

27.

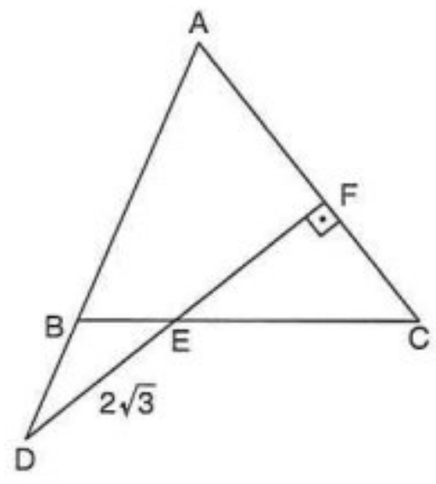


$[DE] \perp [BC]$
$|AB| = |AC| = |BC|$
$|AE| = 8$ br
$|DE| = 5\sqrt{3}$ br

⇒ $|\mathbf{AB}| = ?$

A) 10 B) 13 C) 15 D) 18 E) 20

28.

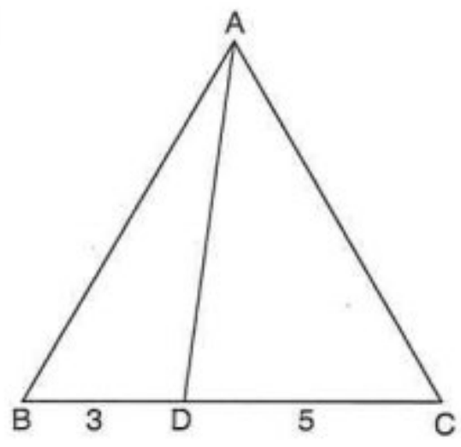


$[DF] \perp [AC]$
$|AB| = |AC| = |BC|$
$|AF| = 6$ br
$|DE| = 2\sqrt{3}$ br

⇒ $|\mathbf{EC}| = ?$

A) 2 B) 4 C) 6 D) 8 E) 10

29.

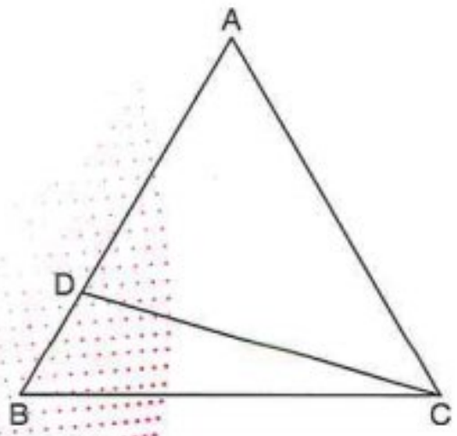


$|AB| = |AC| = |BC|$
$|BD| = 3$ br
$|DC| = 5$ br

⇒ $|\mathbf{AD}| = ?$

A) $4\sqrt{3}$ B) 7 C) $5\sqrt{2}$ D) $2\sqrt{13}$ E) $3\sqrt{6}$

30.



$|AB| = |AC| = |BC|$
$|AD| = 2|BD|$
$|DC| = 2\sqrt{7}$ br

⇒ $|\mathbf{AC}| = ?$

A) 6 B) 7 C) 8 D) 9 E) 12

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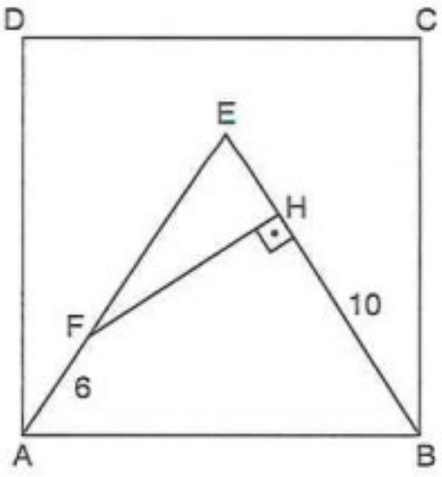
31.

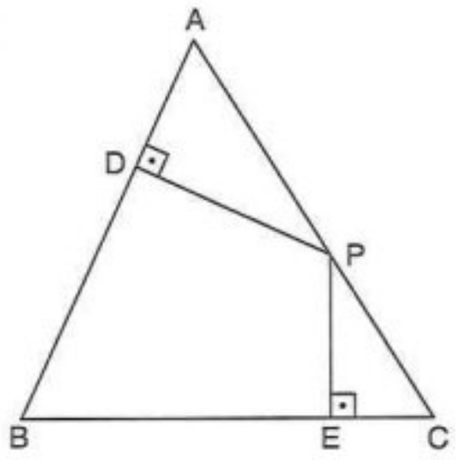


ABCD kare *(Square)*
EAB eşkenar üçgen
(equilateral triangle)
$[FH] \perp [EB]$
$|AF| = 6$ br
$|HB| = 10$ br

⇒ **Ç(ABCD) = ?**

A) 44 B) 48 C) 56 D) 60 E) 68

32.

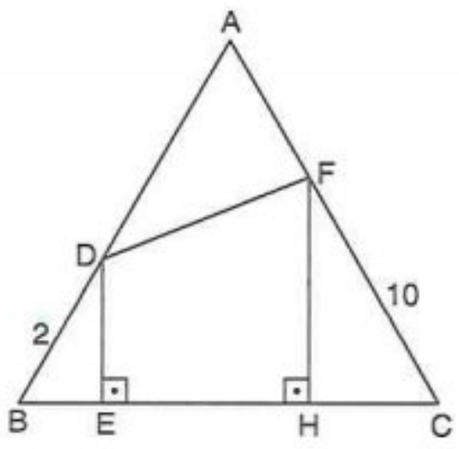


ABC eşkenar üçgen
(equilateral triangle)
$[PD] \perp [AB]$
$[PE] \perp [BC]$
$|EC| = 2$ br
$|PD| = 3\sqrt{3}$ br

⇒ $|\mathbf{AB}| = ?$

A) 8 B) 10 C) 12 D) 14 E) 16

33.

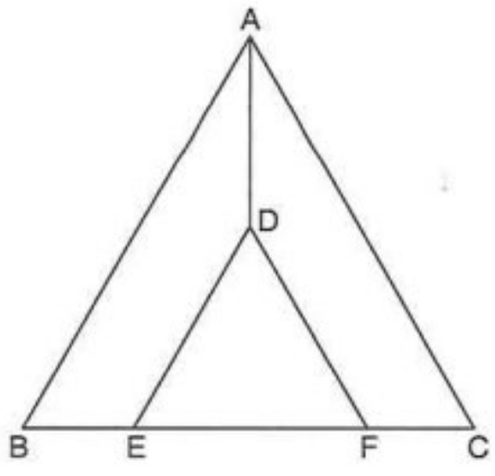


$|AB| = |AC| = |BC|$
$[DE] \perp [BC]$
$[FH] \perp [BC]$
$|BD| = 2$ br
$|EH| = 5$ br

⇒ $|\mathbf{DF}| = ?$

A) $\sqrt{73}$ B) 6 C) 7 D) $5\sqrt{2}$ E) $2\sqrt{13}$

34.

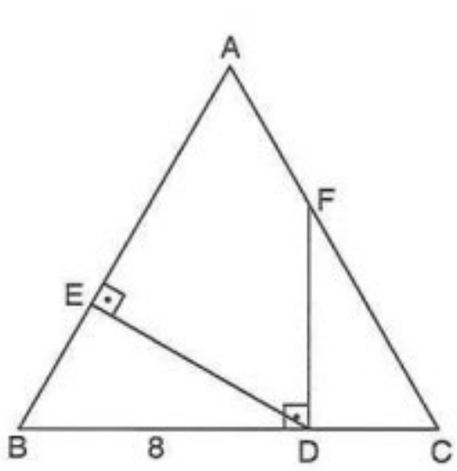


ABC ve DEF eşkenar üçgen
(equilateral triangle)
$|EF| = 2|BE| = 2|FC| = 6$ br

⇒ $|\mathbf{AD}| = ?$

A) $3\sqrt{3}$ B) 6 C) $6\sqrt{3}$ D) 12 E) $9\sqrt{3}$

35

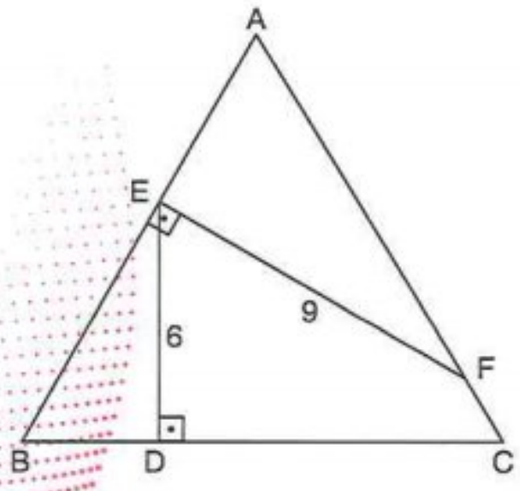


$|AB| = |BC| = |AC|$
$[ED] \perp [AB]$
$[FD] \perp [BC]$
$|AC| = 3|AF|$
$|BD| = 8$ br

⇒ $|\mathbf{FD}| = ?$

A) $3\sqrt{3}$ B) $4\sqrt{3}$ C) $5\sqrt{3}$ D) $6\sqrt{3}$ E) $8\sqrt{3}$

36.



$|AB| = |AC| = |BC|$
$[EF] \perp [AB]$
$[ED] \perp [BC]$
$|ED| = 6$ br
$|EF| = 9$ br

⇒ $|\mathbf{DC}| = ?$

A) $2\sqrt{3}$ B) $3\sqrt{3}$ C) $4\sqrt{3}$ D) $5\sqrt{3}$ E) $16\sqrt{3}$

25. E	26. C	27. D	28. D	29. B	30. A
31. C	32. B	33. A	34. A	35. B	36. D

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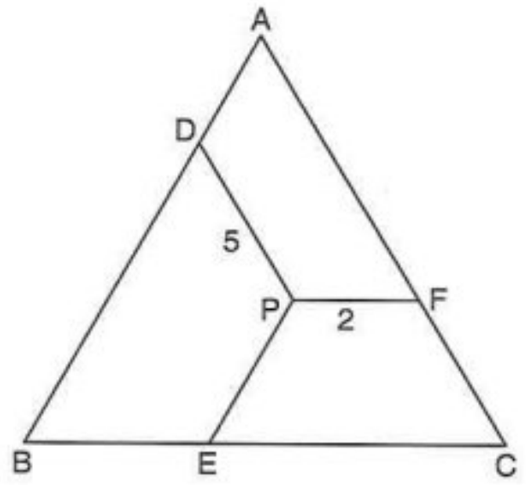
37.

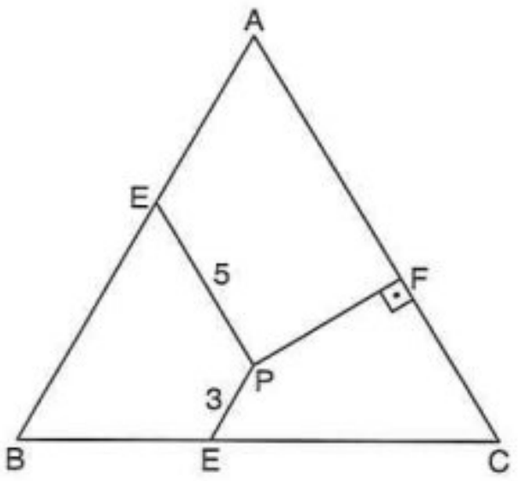


$|AB| = |AC| = |BC|$
$[PD] \,/\!/\, [AC]$
$[PE] \,/\!/\, [AB]$
$[PF] \,/\!/\, [BC]$
$|PD| = 5$ br
$|PE| = 3$ br
$|PF| = 2$ br

⇒ **Ç(ABC) = ?**

A) 15 B) 18 C) 24 D) 27 E) 30

38.

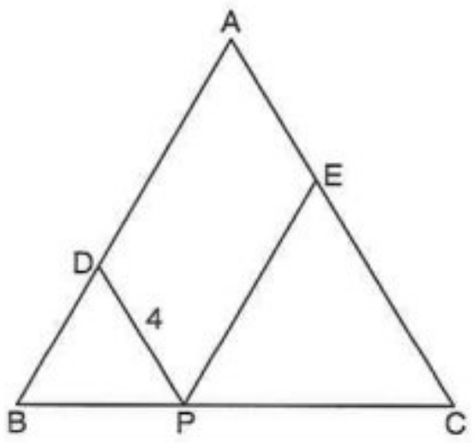


ABC eşkenar üçgen
(equilateral triangle)
$[PE] \,/\!/\, [AC]$
$[PD] \,/\!/\, [AB]$
$[PF] \perp [AC]$
$|PD| = 3$ br
$|PE| = 5$ br
$|PF| = 4\sqrt{3}$ br

⇒ **|BC| = ?**

A) 10 B) 11 C) 12 D) 13 E) 16

39.

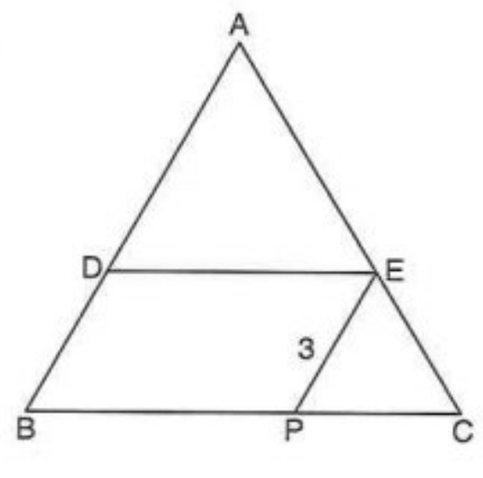


$[PD] \,/\!/\, [AC]$
$[PE] \,/\!/\, [AB]$
$|AB| = |AC| = |BC|$
$|PD| = 4$ br
$|PE| = 6$ br

⇒ **Ç(ABC) = ?**

A) 15 B) 18 C) 24 D) 30 E) 36

40.

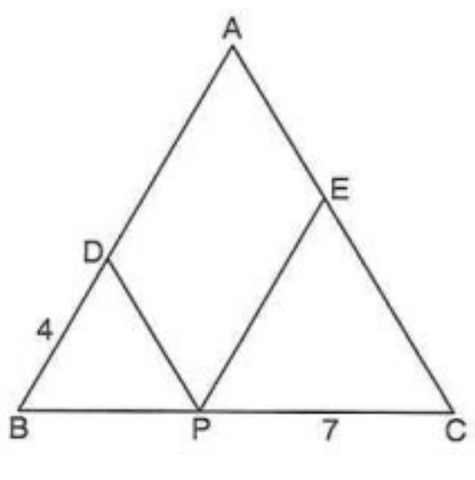


ABC eşkenar üçgen
(equilateral triangle)
$[PE] \,/\!/\, [AB]$
$[DE] \,/\!/\, [BC]$
$|PE| = 3$ br
Ç(ABC)=36 br

⇒ **|DE| = ?**

A) 7 B) 8 C) 9 D) 10 E) 11

41.

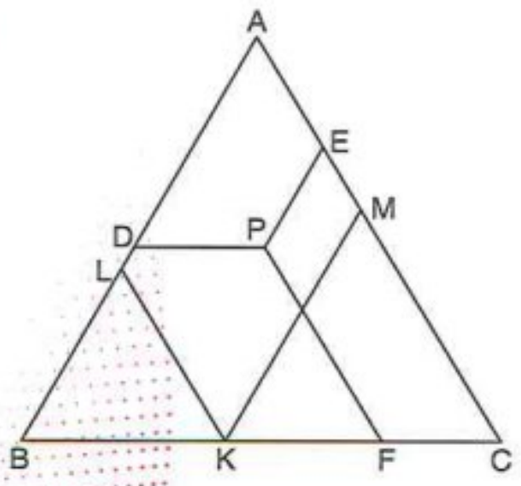


$|AB| = |AC| = |BC|$
$[PD] \,/\!/\, [AC]$
$[PE] \,/\!/\, [AB]$
$|DB| = 4$ br
$|PC| = 7$ br

⇒ **|PD| + |PE| = ?**

A) 10 B) 11 C) 12 D) 13 E) 14

42.



ABC eşkenar üçgen
(equilateral triangle)
$[AB] \,/\!/\, [PE] \,/\!/\, [KM]$
$[AC] \,/\!/\, [PF] \,/\!/\, [KL]$
$[BC] \,/\!/\, [PD]$
$|PD| = 3$ br
$|PE| = 4$ br
$|KL| = 7$ br
$|KM| = 8$ br

⇒ **|PF| = ?**

A) 6 B) 8 C) 9 D) 10 E) 12

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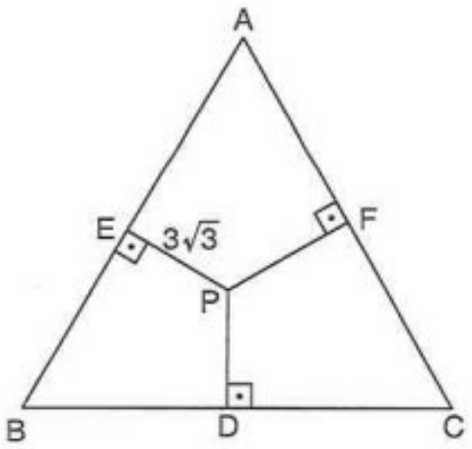
43.

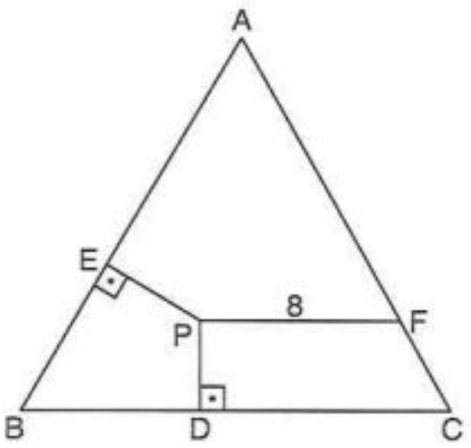


ABC eşkenar üçgen
(equilateral triangle)
[PD] ⊥ [BC]
[PE] ⊥ [AB]
[PF] ⊥ [AC]
|PD| = $\sqrt{3}$ br
|PE| = $3\sqrt{3}$ br
|PF| = $2\sqrt{3}$ br

⇒ |**BC**| = ?

A) 6 B) $6\sqrt{3}$ C) 9 D) $9\sqrt{3}$ E) 12

44.

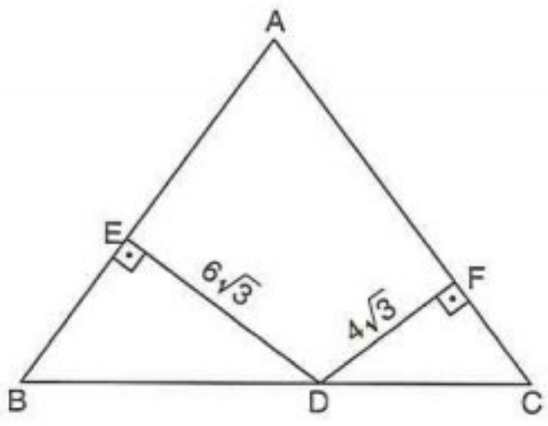


ABC eşkenar üçgen
(equilateral triangle)
[PD] ⊥ [BC]
[PE] ⊥ [AB]
[PF] // [BC]
|PE| = $3\sqrt{3}$ br
|PD| = $2\sqrt{3}$ br
|PF| = 8 br

⇒ |**AC**| = ?

A) 21 B) 18 C) 16 D) 14 E) 12

45.

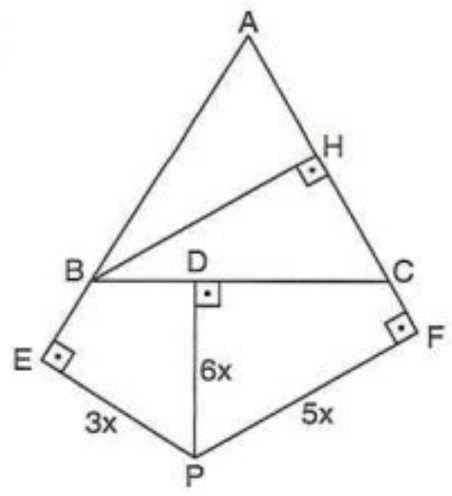


ABC eşkenar üçgen
(equilateral triangle)
[DE] ⊥ [AB]
[DF] ⊥ [AC]
|DE| = $6\sqrt{3}$ br
|DF| = $4\sqrt{3}$ br

⇒ **Ç(ABC) = ?**

A) 20 B) 30 C) 40 D) 50 E) 60

46.

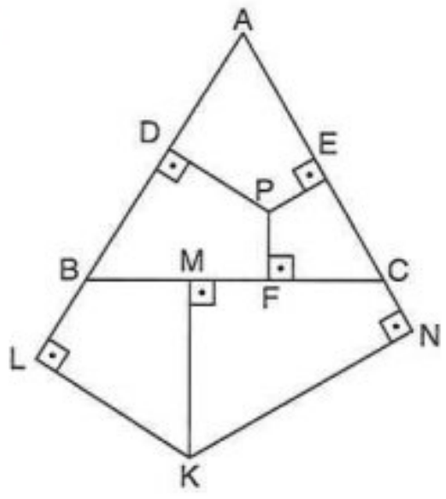


ABC eşkenar üçgen
(equilateral triangle)
[PD] ⊥ [BC]
[PE] ⊥ [AE]
[PF] ⊥ [AF]
[BH] ⊥ [AF]
|PD| = 6x br
|PE| = 3x br
|PF| = 5x br
|BH| = 4 br

⇒ **x = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

47.

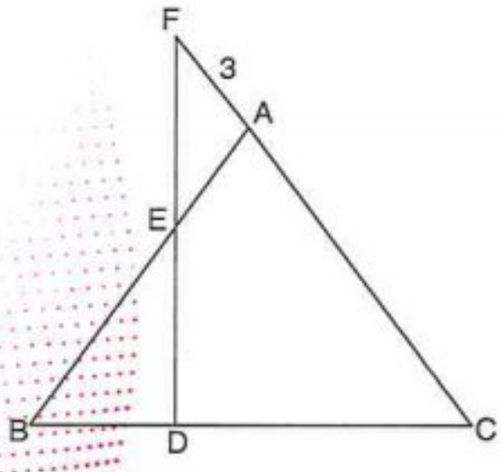


ABC eşkenar üçgen
(equilateral triangle)
[PD] ⊥ [AB], [PE] ⊥ [AC]
[PF] ⊥ [BC], [KL] ⊥ [AL]
[KM] ⊥ [BC], [KN] ⊥ [AN]
|PD| = 5 br, |PE| = 3 br
|PF| = 1 br, |KL| = 8 br
|KN| = 12 br

⇒ |**KM**| = **x** = ?

A) 6 B) 8 C) 10 D) 11 E) 13

48.



ABC eşkenar üçgen
(equilateral triangle)
|AF| = |AE| = 3 br
|EB| = 10 br

⇒ |**FD**| = ?

A) $5\sqrt{3}$ B) $6\sqrt{3}$ C) $7\sqrt{3}$ D) $8\sqrt{3}$ E) $9\sqrt{3}$

37. E	38. E	39. D	40. C	41. B	42. B
43. E	44. B	45. E	46. B	47. D	48. D

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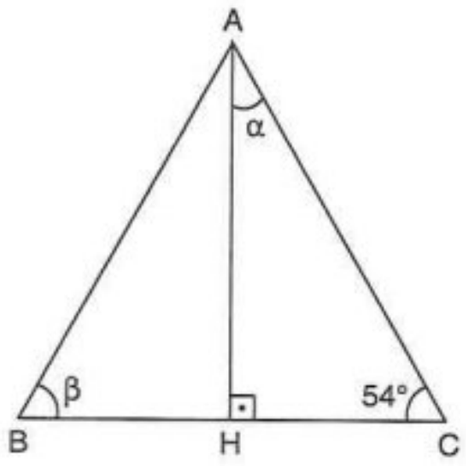
1.

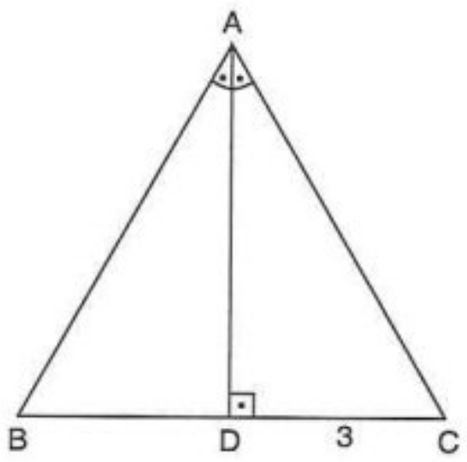


$|AB| = |AC|$
$[AH] \perp [BC]$
$m(\widehat{ACB}) = 54°$
$m(\widehat{HAC}) = \alpha°$
$m(\widehat{ABC}) = \beta°$

$\Rightarrow \beta - \alpha = ?$

A) 18 B) 20 C) 24 D) 36 E) 54

2.

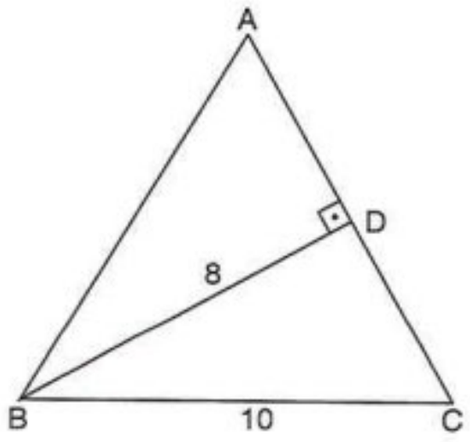


[AD] açıortay (*bisector*)
$[AD] \perp [BC]$
$|AB| = 5$ br
$|DC| = 3$ br

$\Rightarrow |BD| + |AC| = ?$

A) 6 B) 8 C) 10 D) 13 E) 15

3.

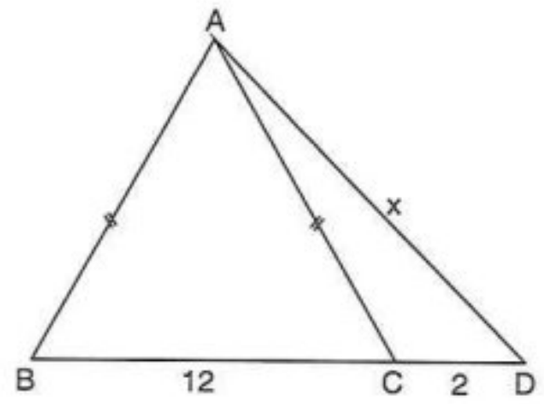


$[BD] \perp [AC]$
$m(\widehat{ABD}) = m(\widehat{DBC})$
$|BD| = 8$ br
$|BC| = 10$ br

$\Rightarrow |AD| = ?$

A) 4 B) 6 C) 8 D) 9 E) 10

4.

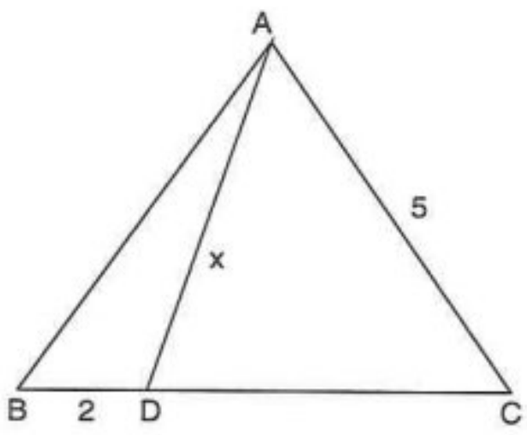


$|AB| = |AC| = 10$ br
$|BC| = 12$ br
$|CD| = 2$ br

$\Rightarrow |AD| = x = ?$

A) 6 B) $6\sqrt{2}$ C) $6\sqrt{3}$ D) $8\sqrt{2}$ E) 13

5.

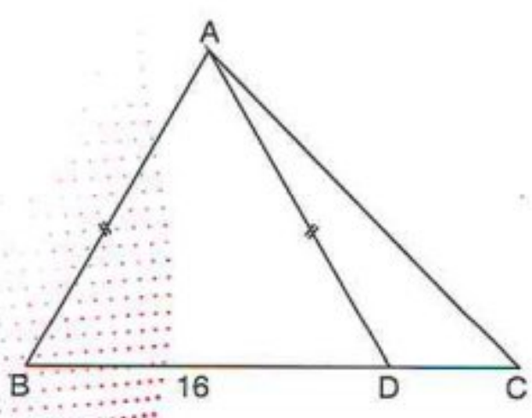


$|AB| = |AC| = 5$ br
$|BC| = 8$ br
$|BD| = 2$ br

$\Rightarrow |AD| = x = ?$

A) $2\sqrt{2}$ B) $2\sqrt{3}$ C) $\sqrt{13}$ D) $4\sqrt{2}$ E) $4\sqrt{3}$

6.



$|AB| = |AD|$
$|BD| = 16$ br
$|BC| = 20$ br
$|AC| = 6\sqrt{5}$ br

$\Rightarrow |AB| = ?$

A) 6 B) 7 C) 8 D) 9 E) 10

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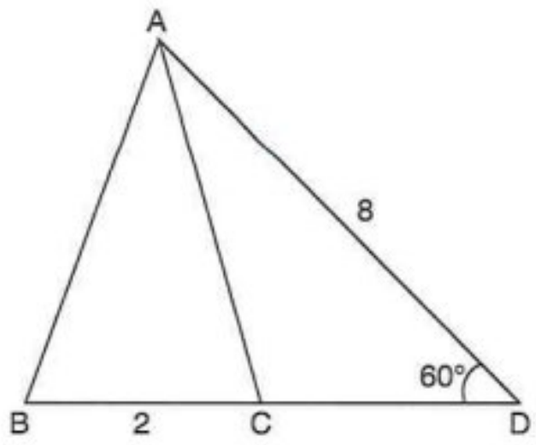
7.

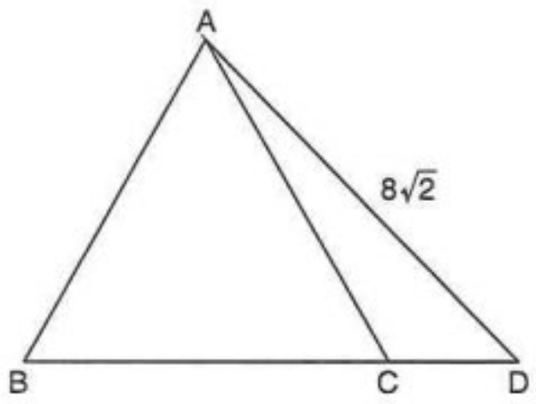


$|AB| = |AC|$
$m(\widehat{ADB}) = 60°$
$|BC| = 2$ br
$|AD| = 8$ br

⇒ $|AB| = ?$

A) 4 B) 6 C) 7 D) 8 E) 12

8.

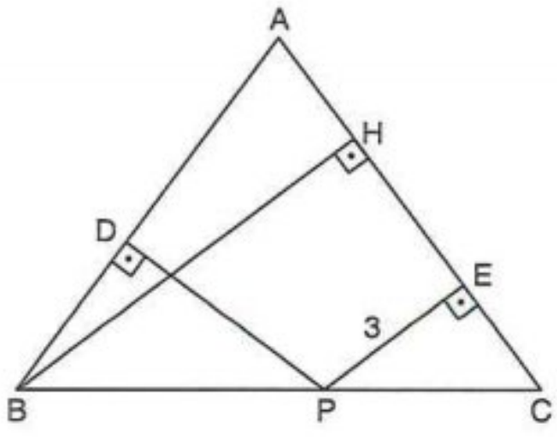


$|AB| = |AC|$
$m(\widehat{ADB}) = 45°$
$|CD| = 2$ br
$|AD| = 8\sqrt{2}$ br

⇒ $|AB| = ?$

A) 12 B) 10 C) 8 D) 6 E) 4

9.

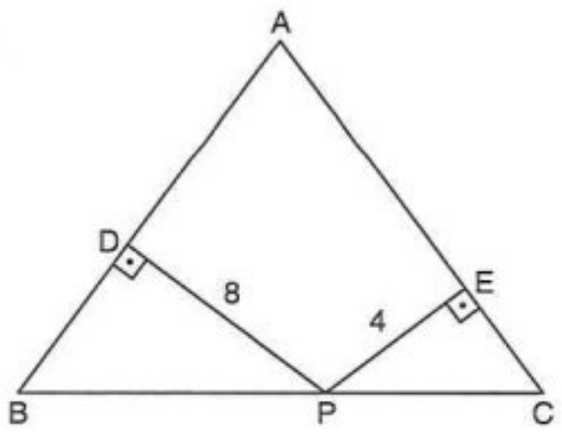


$[PD] \perp [AB]$
$[PE] \perp [AC]$
$[BH] \perp [AC]$
$|AB| = |AC|$
$|PE| = 3$ br
$|PD| = 5$ br

⇒ $|BH| = ?$

A) 6 B) 7 C) 8 D) 9 E) 10

10.

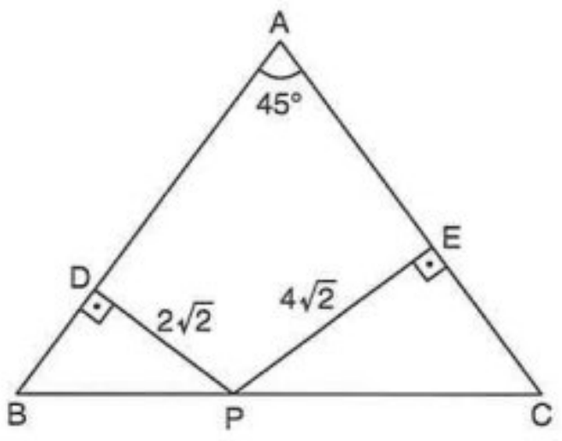


$|AB| = |AC|$
$[PD] \perp [AB]$
$[PE] \perp [AC]$
$m(\widehat{ACB}) = 30°$
$|PE| = 4$ br
$|PD| = 8$ br

⇒ $|BC| = ?$

A) 12 B) 16 C) 18 D) 24 E) 36

11.

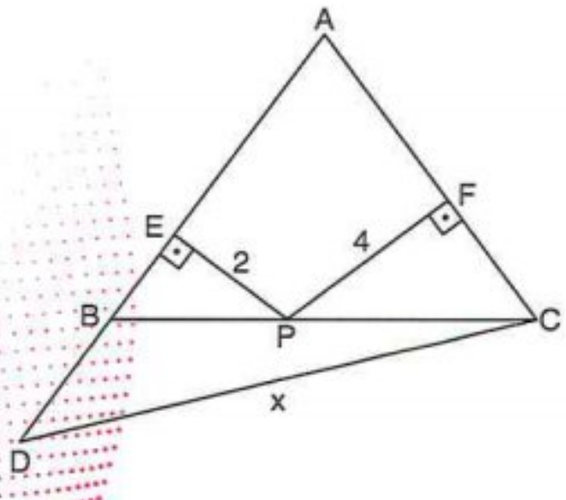


$|AB| = |AC|$
$[PD] \perp [AB]$
$[PE] \perp [AC]$
$m(\widehat{BAC}) = 45°$
$|PD| = 2\sqrt{2}$ br
$|PE| = 4\sqrt{2}$ br

⇒ $|AB| = ?$

A) 6 B) 8 C) 10 D) 12 E) 18

12.



$[PE] \perp [AD]$
$[PF] \perp [AC]$
$|AB| = |AC|$
$m(\widehat{ADC}) = 30°$
$|PE| = 2$ br
$|PF| = 4$ br

⇒ $|DC| = x = ?$

A) 6 B) 9 C) 12 D) 18 E) 24

1. A	2. B	3. B	4. D	5. C	6. E
7. C	8. B	9. C	10. D	11. D	12. C

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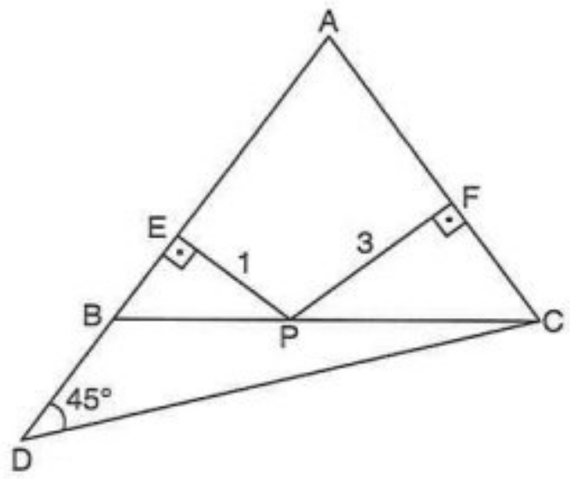
1.

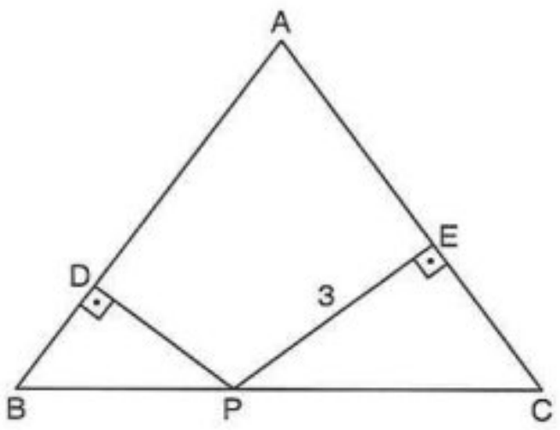


$[PE] \perp [AD]$
$[PF] \perp [AC]$
$m(\widehat{ADC}) = 45°$
$|AB| = |AC|$
$|PE| = 1\,br$
$|PF| = 3\,br$

$\Rightarrow$ **$|DC| = ?$**

A) 4 B) $4\sqrt{2}$ C) $4\sqrt{3}$ D) 8 E) $8\sqrt{2}$

2.

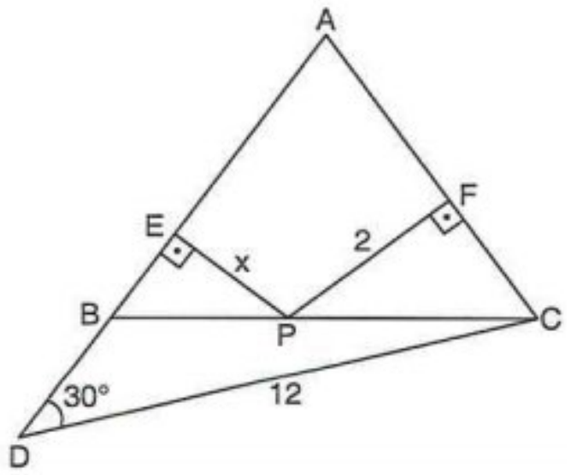


$[PD] \perp [AB]$
$[PE] \perp [AC]$
$|AB| = |AC| = 10\,br$
$|PD| = 2\,br$
$|PE| = 3\,br$

$\Rightarrow$ **$m(\widehat{BAC}) = ?$**

A) 15° B) 30° C) 45° D) 60° E) 90°

3.

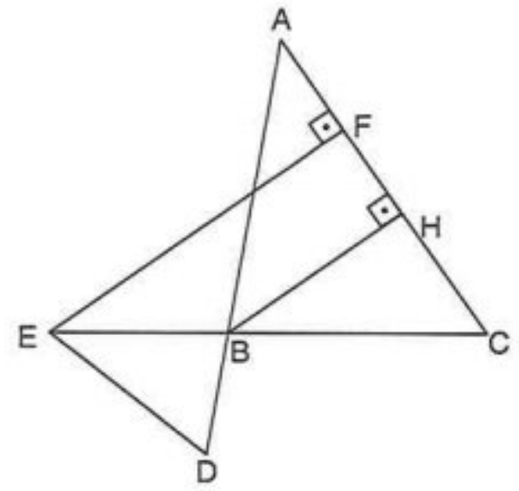


$[PE] \perp [AD]$
$[PF] \perp [AC]$
$m(\widehat{ADC}) = 30°$
$|AB| = |AC|$
$|PE| = 2\,br$
$|DC| = 12\,br$

$\Rightarrow$ **$|PF| = x = ?$**

A) 4 B) 6 C) 8 D) 10 E) 12

4.

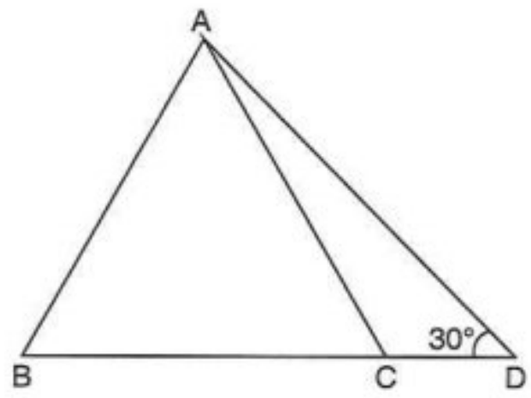


$[EF] \perp [AC]$
$[ED] \perp [AD]$
$[BH] \perp [AC]$
$|AB| = |AC|$
$|EF| = 12\,br$
$|ED| = 5\,br$

$\Rightarrow$ **$|BH| = ?$**

A) 6 B) 7 C) 8 D) 9 E) 10

5.

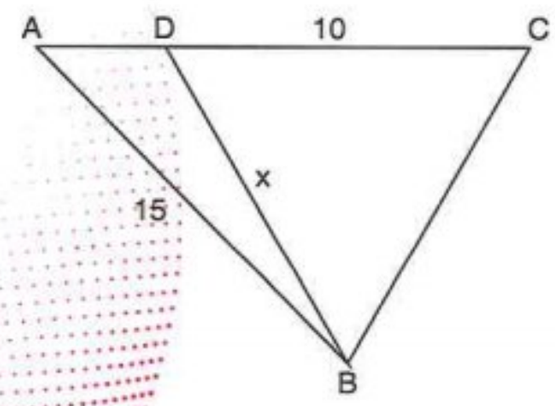


$|AB| = |AC|$
$m(\widehat{ADB}) = 30°$
$|AD| = |BC| = 16\,br$

$\Rightarrow$ **$|AB| = ?$**

A) $8\sqrt{2}$ B) $4\sqrt{5}$ C) $6\sqrt{2}$ D) 8 E) 6

6.



$|BD| = |BC|$
$|AB| = 15\,br$
$|DC| = 10\,br$
$|AD| = 4\,br$

$\Rightarrow$ **$|BD| = x = ?$**

A) 6 B) 8 C) 10 D) 12 E) 13

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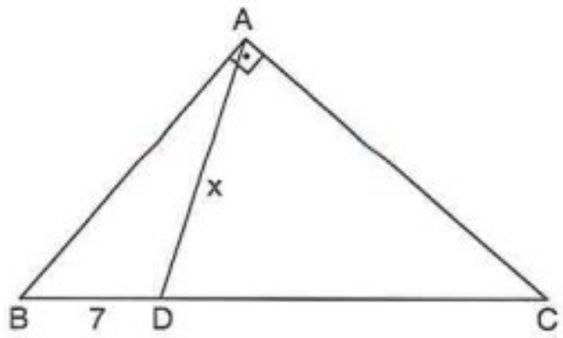
7.

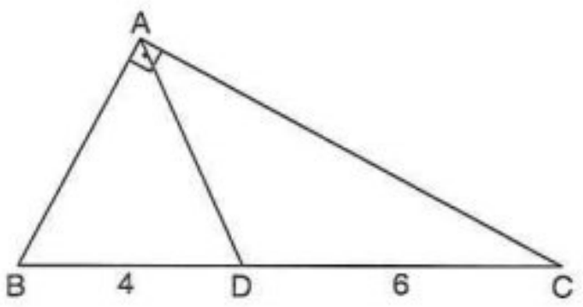


$[AB] \perp [AC]$
$|AB| = |AC| = 12\sqrt{2}$
$|BD| = 7$ br

$\Rightarrow |\mathbf{AD}| = \mathbf{x} = ?$

A) 10 B) 11 C) 12 D) 13 E) 17

8.

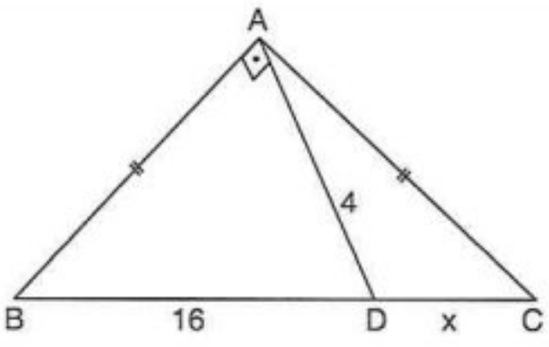


$[AB] \perp [AC]$
$|AB| = |AD|$
$|BD| = 4$ br
$|DC| = 6$ br

$\Rightarrow |\mathbf{AB}| = ?$

A) 2 B) 3 C) 4 D) $2\sqrt{5}$ E) $4\sqrt{2}$

9.

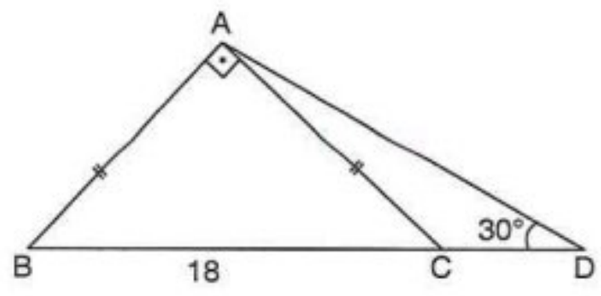


$[AB] \perp [AD]$
$|AB| = |AC|$
$|BD| = 16$ br
$|AD| = 4$ br

$\Rightarrow |\mathbf{DC}| = \mathbf{x} = ?$

A) 15 B) 14 C) 13 D) 7 E) 6

10.

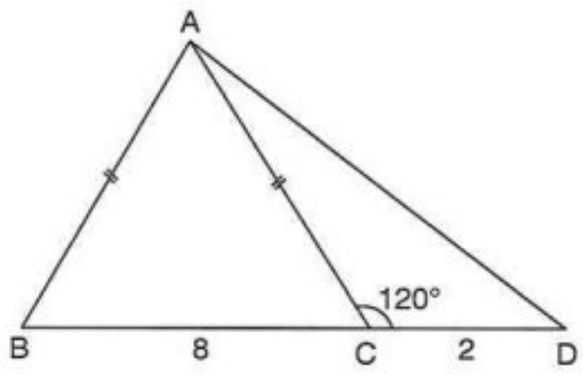


$[AB] \perp [AC]$
$m(\widehat{ADB}) = 30°$
$|AB| = |AC|$
$|BC| = 18$ br

$\Rightarrow |\mathbf{AD}| = ?$

A) 9 B) 12 C) 18 D) 20 E) 24

11.

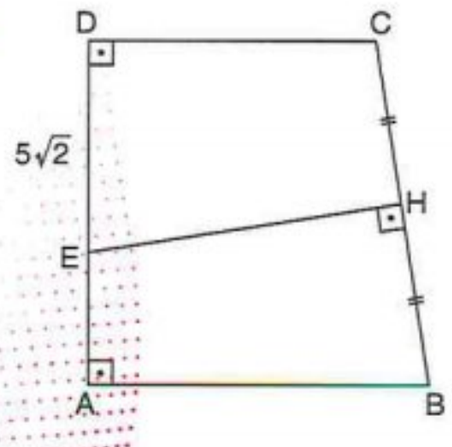


$m(\widehat{ACD}) = 120°$
$|AB| = |AC|$
$|BC| = 8$ br
$|CD| = 2$ br

$\Rightarrow |\mathbf{AD}| = ?$

A) $4\sqrt{21}$ B) 13 C) 10 D) $2\sqrt{21}$ E) 8

12.



$[AB] \perp [AD]$
$[AD] \perp [DC]$
$[EH] \perp [BC]$
$|CH| = |BH|$
$|AB| = 8$ br
$|AE| = 6$ br
$|ED| = 5\sqrt{2}$ br

$\Rightarrow |\mathbf{DC}| = ?$

A) 5 B) $5\sqrt{2}$ C) 10 D) 12 E) $10\sqrt{2}$

1. B	2. B	3. A	4. B	5. A	6. E
7. D	8. D	9. B	10. C	11. D	12. B

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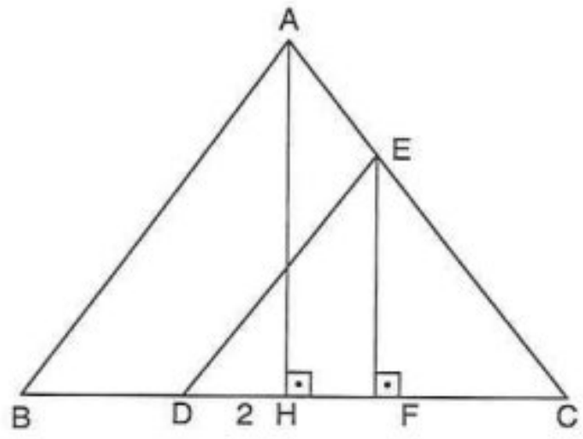
1.

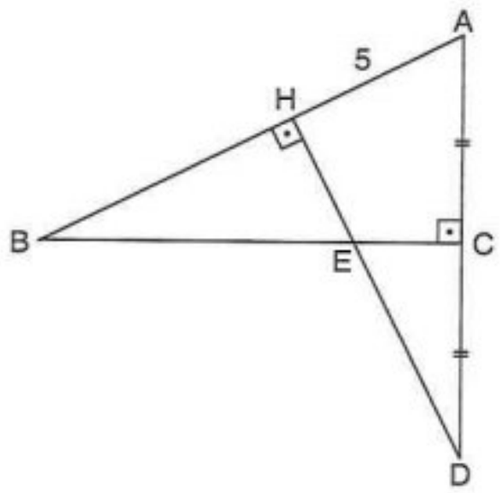


$[AH] \perp [BC]$
$[EF] \perp [BC]$
$|AB| = |AC|$
$|ED| = |EC|$
$|FC| = 5\,br$
$|DH| = 2\,br$

$\Rightarrow$ $|\mathbf{BD}| = ?$

A) 3 B) 4 C) 5 D) 6 E) 8

2.

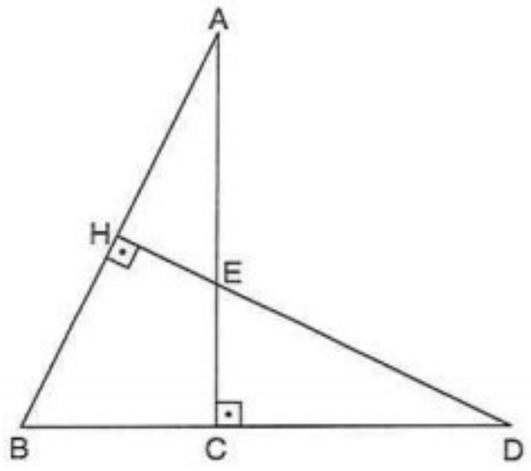


$[AD] \perp [BC]$
$[DH] \perp [AB]$
$|AC| = |CD|$
$|AH| = |BH| = 5\,br$

$\Rightarrow$ $|\mathbf{DH}| = ?$

A) 5 B) 6 C) 8 D) $5\sqrt{3}$ E) 10

3.

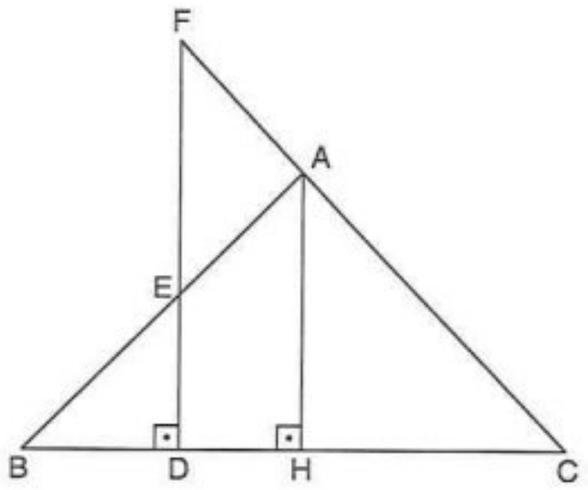


$[AC] \perp [BD]$
$[DH] \perp [AB]$
$|BC| = |CD|$
$|AH| = 7\,br$
$|DH| = 24\,br$

$\Rightarrow$ $|\mathbf{BH}| = ?$

A) 10 B) 12 C) 18 D) 24 E) 25

4.

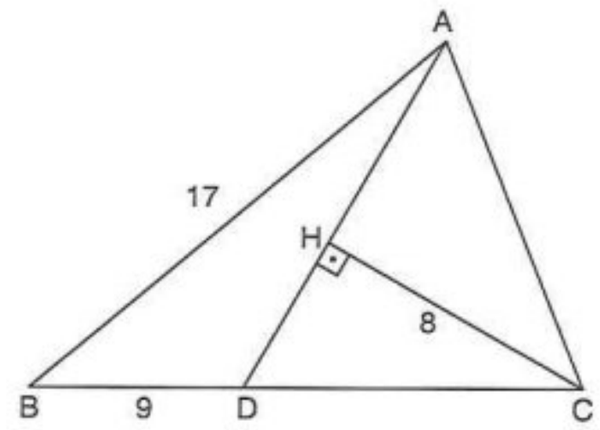


$[AH] \perp [BC]$
$[FD] \perp [BC]$
$|AB| = |AC|$
$|ED| + |FD| = 20\,br$

$\Rightarrow$ $|\mathbf{AH}| = ?$

A) 10 B) 12 C) 14 D) 16 E) 18

5.

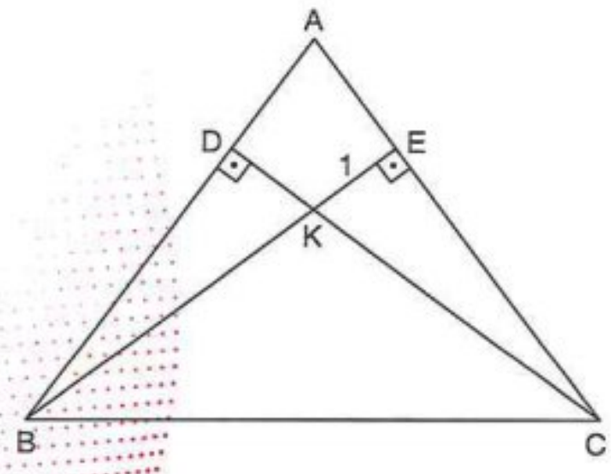


$[CH] \perp [AD]$
$|AD| = |DC|$
$|AB| = 17\,br$
$|BD| = 9\,br$
$|CH| = 8\,br$

$\Rightarrow$ $|\mathbf{DH}| = ?$

A) 6 B) 8 C) 10 D) 12 E) 15

6.



$[CD] \perp [AB]$
$[BE] \perp [AC]$
$|AB| = |AC|$
$|KE| = 1\,br$
$|EC| = \sqrt{3}\,br$

$\Rightarrow$ $|\mathbf{BC}| = ?$

A) $2\sqrt{2}$ B) $2\sqrt{3}$ C) 4 D) $3\sqrt{3}$ E) $4\sqrt{3}$

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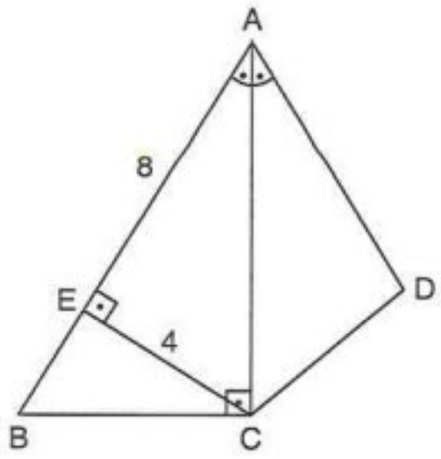
7.

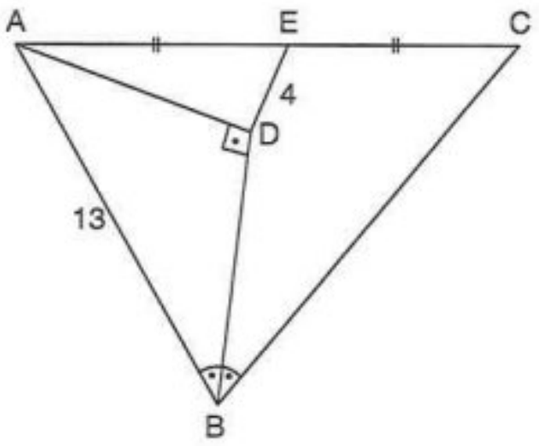


$[AC] \perp [BC]$
$m(\widehat{BAC}) = m(\widehat{CAD})$
$|AE| = 8$ br
$|EC| = 4$ br

$\Rightarrow$ $|\mathbf{AD}| = |\mathbf{DC}| = ?$

A) $5\sqrt{5}$ B) $4\sqrt{5}$ C) 8 D) 5 E) 4

8.

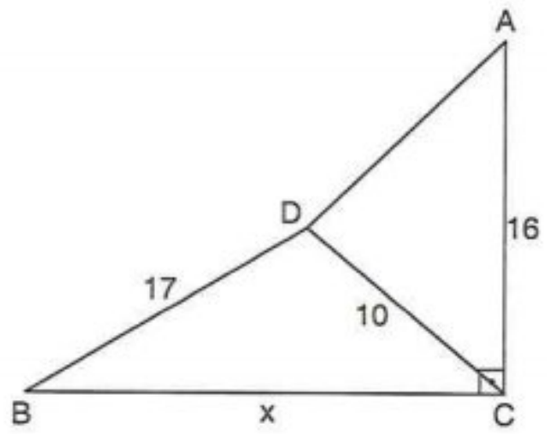


$[AD] \perp [BD]$
$m(\widehat{ABD}) = m(\widehat{DBC})$
$|AE| = |EC|$
$|AB| = 13$ br
$|DE| = 4$ br

$\Rightarrow$ $|\mathbf{BC}| = ?$

A) 27 B) 26 C) 24 D) 23 E) 21

9.

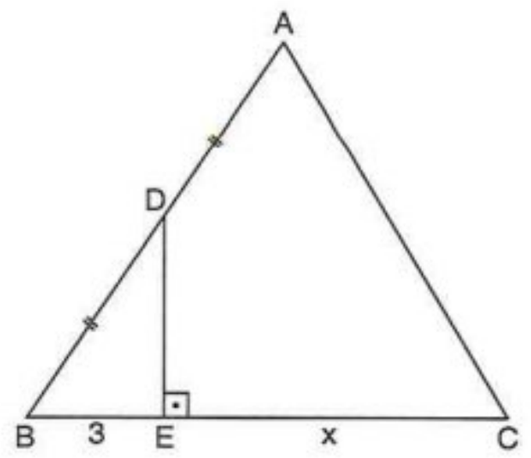


$[AC] \perp [BC]$
$|AD| = |DC| = 10$ br
$|AC| = 16$ br
$|BD| = 17$ br

$\Rightarrow$ $|\mathbf{BC}| = \mathbf{x} = ?$

A) 17 B) 21 C) 24 D) 25 E) 29

10.

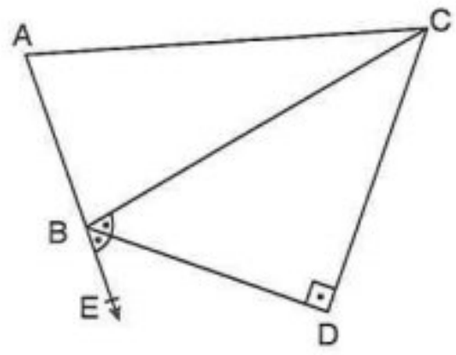


$[DE] \perp [BC]$
$|AB| = |AC|$
$|AD| = |BD|$
$|BE| = 3$ br

$\Rightarrow$ $|\mathbf{EC}| = \mathbf{x} = ?$

A) 3 B) 6 C) 9 D) 12 E) 15

11.

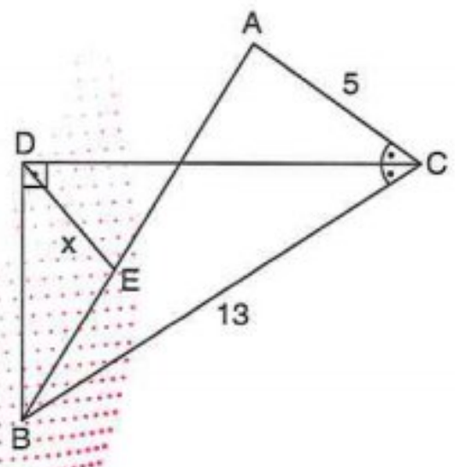


$[BD] \perp [CD]$
$m(\widehat{CBD}) = m(\widehat{DBE})$
$3m(\widehat{BCD}) + 2m(\widehat{ACB}) = 180°$
$|AB| + |BC| = 18$ br

$\Rightarrow$ $|\mathbf{CD}| = ?$

A) 9 B) 12 C) 15 D) 18 E) 21

12.



$[BD] \perp [DC]$
$[DE] \parallel [AC]$
$m(\widehat{ACD}) = m(\widehat{DCB})$

$\Rightarrow$ $|\mathbf{DE}| = \mathbf{x} = ?$

A) 4 B) 5 C) 8 D) 12 E) 13

1. D	2. D	3. C	4. A	5. A	6. B
7. D	8. E	9. B	10. C	11. A	12. A

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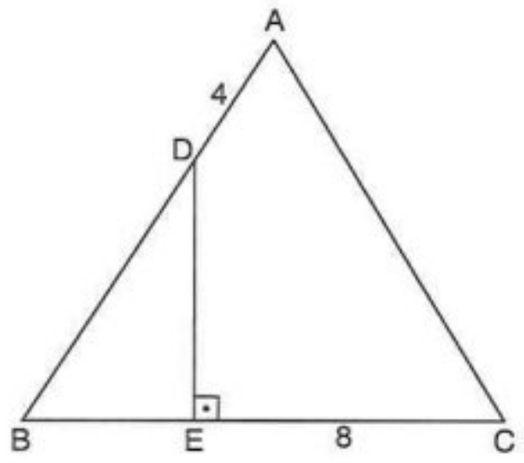
1.

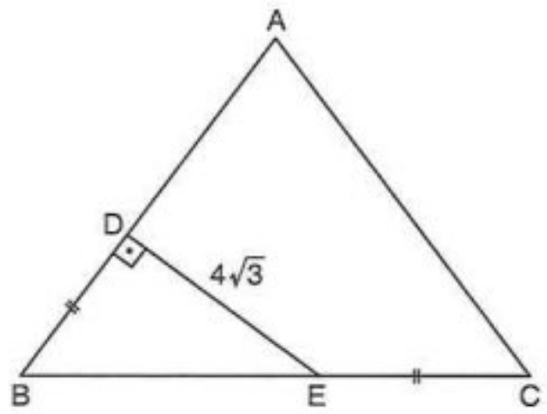


ABC eşkenar üçgen
(equilateral triangle)
$[DE] \perp [BC]$
$|AD| = 4$ br
$|EC| = 8$ br

⇒ $|\mathbf{AC}| = ?$

A) 8 B) 10 C) 12 D) 14 E) 16

2.

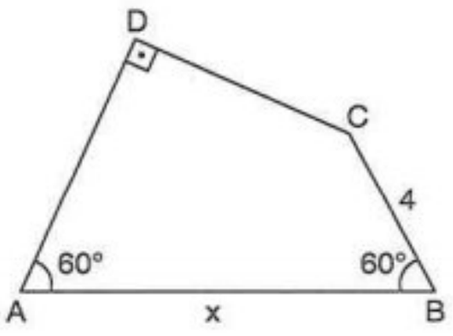


ABC eşkenar üçgen
(equilateral triangle)
$[ED] \perp [AB]$
$|BD| = |EC|$
$|DE| = 4\sqrt{3}$ br

⇒ $|\mathbf{AC}| = ?$

A) 4 B) 8 C) 12 D) 16 E) 20

3.

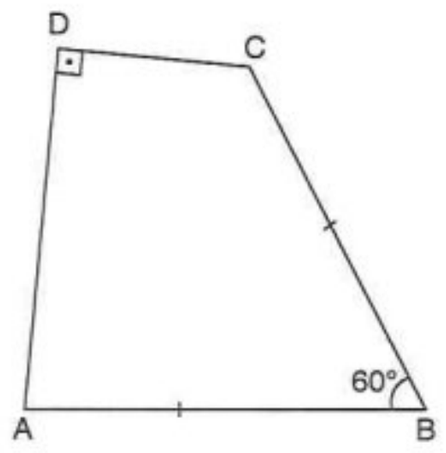


$[AD] \perp [DC]$
$m(\widehat{DAB}) = m(\widehat{ABC}) = 60°$
$|DC| = 6\sqrt{3}$ br
$|BC| = 4$ br

⇒ $|\mathbf{AB}| = \mathbf{x} = ?$

A) 6 B) 8 C) 10 D) 12 E) 16

4.

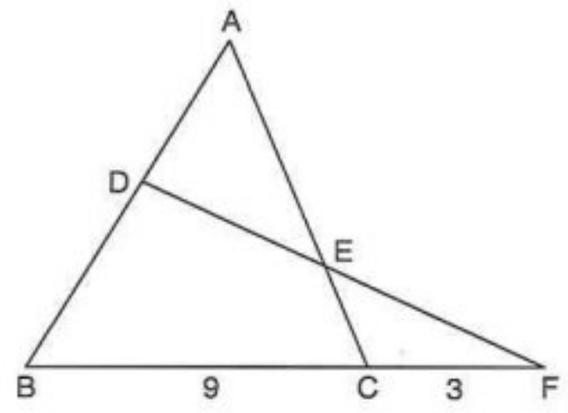


$[AD] \perp [DC]$
$|AB| = |BC|$
$m(\widehat{ABC}) = 60°$
$|AD| = 12$ br
$|DC| = 9$ br

⇒ $|\mathbf{AB}| = ?$

A) 9 B) 12 C) 15 D) 18 E) 21

5.

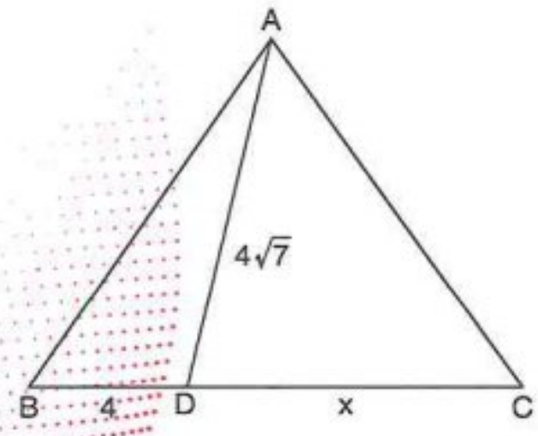


ABC eşkenar üçgen
(equilateral triangle)
$|EC| = |CF| = 3$ br
$|BC| = 9$ br

⇒ $|\mathbf{DE}| = ?$

A) $3\sqrt{3}$ B) $4\sqrt{3}$ C) $5\sqrt{3}$ D) $6\sqrt{3}$ E) $8\sqrt{3}$

6.



$|AB| = |AC| = |BC|$
$|AD| = 4\sqrt{7}$ br
$|BD| = 4$ br

⇒ $|\mathbf{DC}| = \mathbf{x} = ?$

A) 6 B) 7 C) 8 D) 9 E) 10

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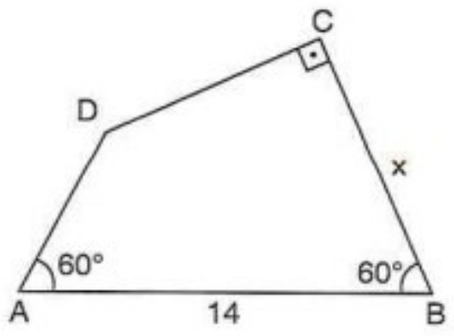
7.

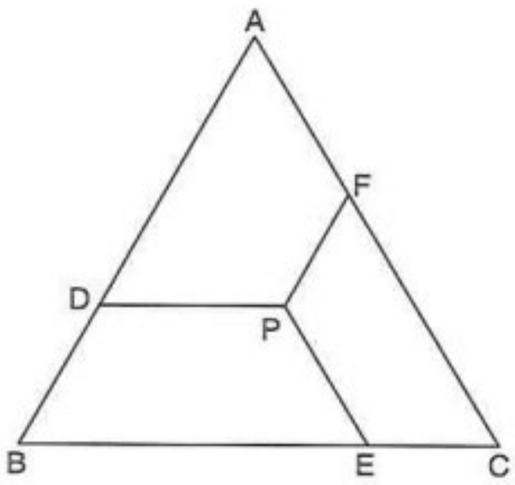


$[DC] \perp [BC]$
$m(\widehat{ABC}) = m(\widehat{DAB}) = 60°$
$|AB| = 14$ br
$|AD| = 8$ br

⇒ $|BC| = x = ?$

A) 7 B) 8 C) 9 D) 10 E) 11

8.

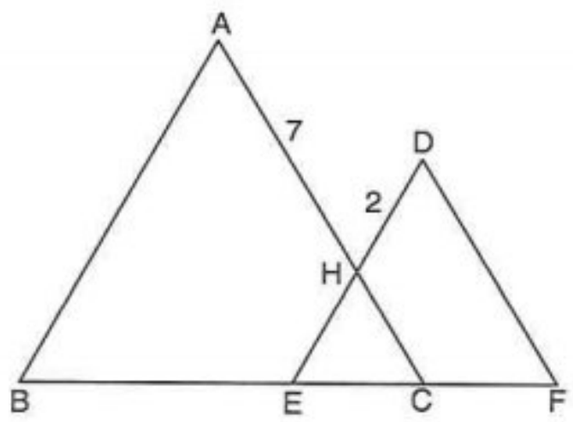


$|AB| = |AC| = |BC|$
$[PD] \parallel [BC]$
$[PE] \parallel [AC]$
$[PF] \parallel [AB]$
$|PF| = 3$ br
$|PE| = 4$ br

⇒ $|FC| = ?$

A) 6 B) 7 C) 8 D) 9 E) 10

9.

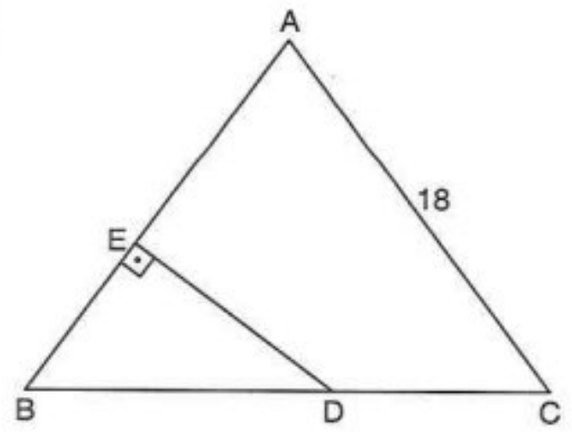


ABC , DEF eşkenar üçgen
(equilateral triangle)
$|AH| = 7$ br
$|EC| = 3$ br
$|DH| = 2$ br

⇒ $|BF| = ?$

A) 7 B) 10 C) 12 D) 15 E) 18

10.

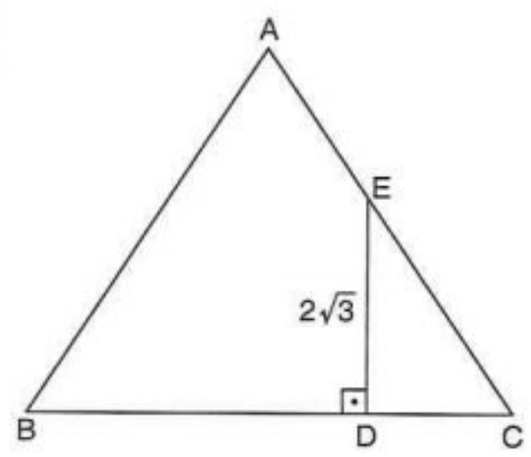


$[DE] \perp [AB]$
$|AB| = |AC| = |BC|$
$|AC| = 18$ br
$|ED| = 4\sqrt{3}$ br

⇒ $|CD| = ?$

A) 10 B) 11 C) 12 D) 13 E) 14

11.

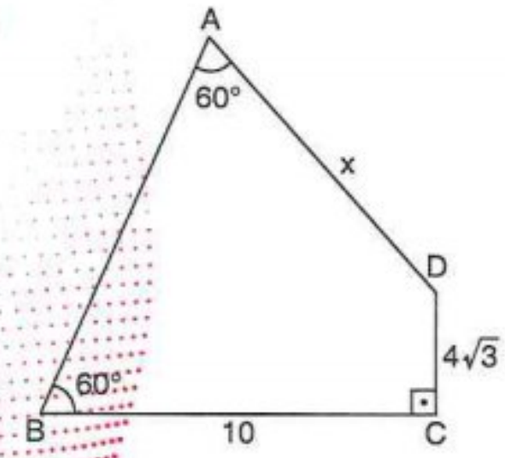


$[DE] \perp [BC]$
$|AB| = |AC| = |BC|$
$|DE| = 2\sqrt{3}$ br
$|AE| = 3$ br

⇒ $|BD| = ?$

A) 2 B) 3 C) 5 D) 7 E) 9

12.



$[DC] \perp [BC]$
$m(\widehat{DAB}) = m(\widehat{ABC}) = 60°$
$|BC| = 10$ br
$|DC| = 4\sqrt{3}$ br

⇒ $|AD| = x = ?$

A) 4 B) 6 C) 8 D) 10 E) 14

1. C	2. C	3. E	4. C	5. A	6. C
7. E	8. B	9. C	10. A	11. C	12. B

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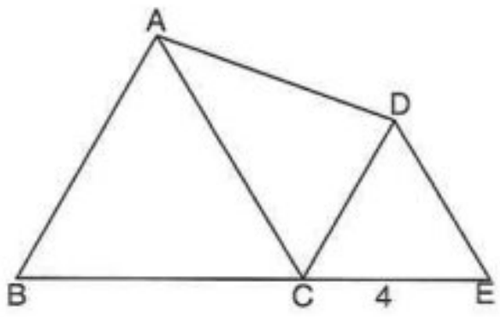
1.

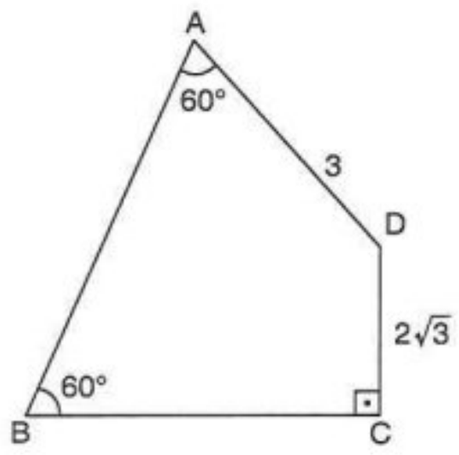


ABC ve DCE eşkenar üçgen *(equilateral triangle)*
$|CE| = 4$ br
$|BC| = 8$ br

⇒ $|AD| = ?$

A) $4\sqrt{2}$ B) $4\sqrt{3}$ C) $4\sqrt{5}$ D) 8 E) $8\sqrt{3}$

2.

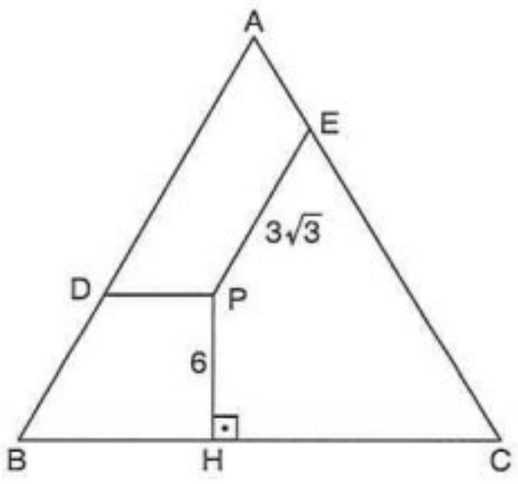


$[DC] \perp [BC]$
$m(\widehat{ABC}) = m(\widehat{DAB}) = 60°$
$|AD| = 3$ br
$|DC| = 2\sqrt{3}$ br

⇒ $|BC| = ?$

A) 2 B) 3 C) 5 D) 7 E) 10

3.

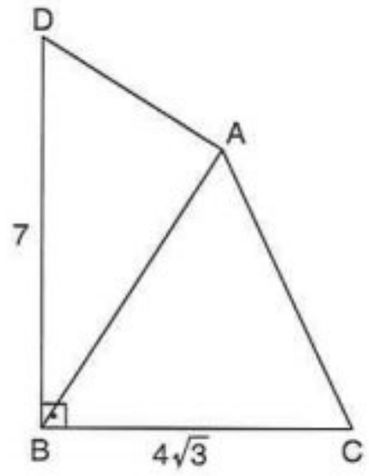


$|AB| = |AC| = |BC|$
$[PH] \perp [BC]$
$[PD] \parallel [BC]$
$[PE] \parallel [AB]$
$[PD] = 2\sqrt{3}$ br
$[PE] = 3\sqrt{3}$ br
$[PH] = 6$ br

⇒ $|AC| = ?$

A) $7\sqrt{3}$ B) 8 C) $8\sqrt{3}$ D) 12 E) $9\sqrt{3}$

4.

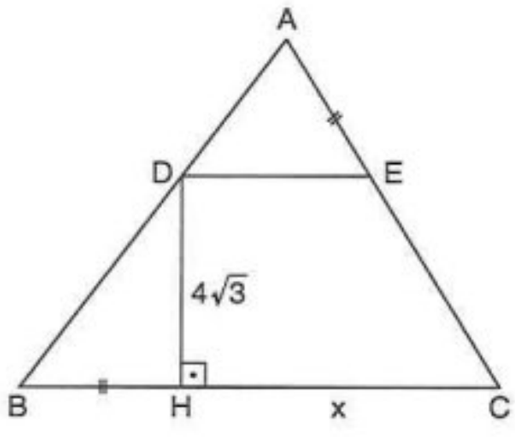


$[DB] \perp [BC]$
$|AB| = |BC|$
$m(\widehat{ABC}) = 60°$
$|BC| = 4\sqrt{3}$ br
$|BD| = 7$ br

⇒ $|AD| = ?$

A) $2\sqrt{3}$ B) $\sqrt{13}$ C) 4 D) $\sqrt{17}$ E) $2\sqrt{5}$

5.

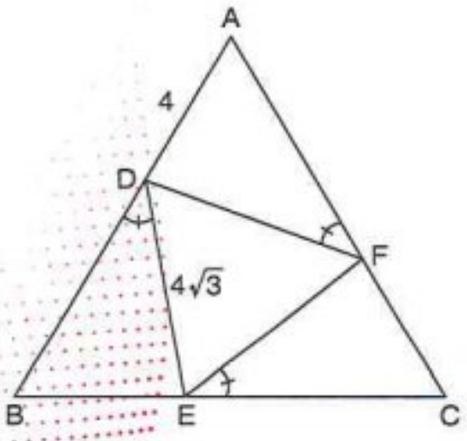


ABC eşkenar üçgen *(equilateral triangle)*
$[DH] \perp [BC]$
$[DE] \parallel [BC]$
$|BH| = |AE|$
$|DH| = 4\sqrt{3}$ br

⇒ $|HC| = x = ?$

A) 6 B) 7 C) 8 D) 9 E) 10

6.



ABC , DEF eşkenar üçgen *(equilateral triangle)*
$m(\widehat{BDE}) = m(\widehat{FEC}) = m(\widehat{AFD})$
$|DE| = 4\sqrt{3}$ br
$|AD| = 4$ br

⇒ $|AC| = ?$

A) 8 B) 10 C) 12 D) 14 E) 16

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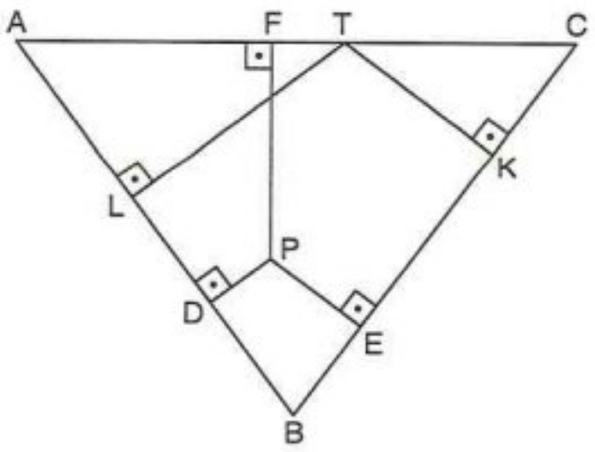
7.



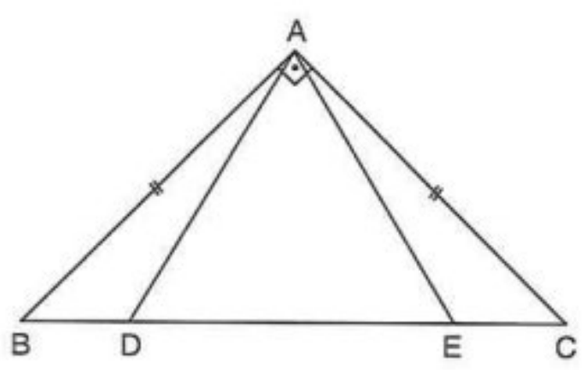
ABC eşkenar üçgen
(equilateral triangle)

$|TK| = 4$ br
$|TL| = 9$ br
$|PF| = 7$ br
$|PE| = 5$ br

⇒ $|PD| = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

8.



$[AB] \perp [AC]$
$|AB| = |AC|$
$|AD| = |AE| = |DE|$
$|BC| = 8\sqrt{3}$ br

⇒ $|DE| = ?$

A) $4\sqrt{3}$ B) 6 C) $6\sqrt{3}$ D) 8 E) $8\sqrt{2}$

9.

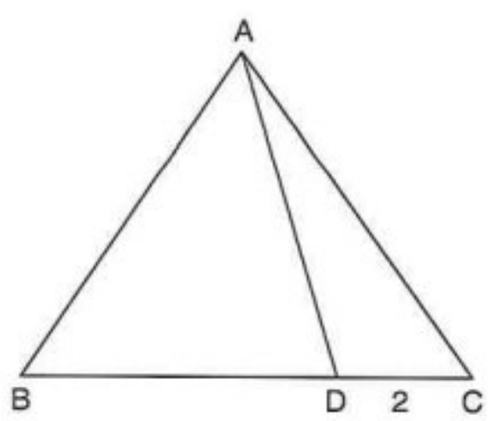
ABC eşkenar üçgen
(equilateral triangle)

$[AD] \perp [AE]$
$m(A\widehat{E}B) = 15°$
$|PM| = 1$ br
$|PK| = 3$ br
$|PL| = 4$ br

⇒ $|DE| = ?$

A) 16 B) 20 C) 24 D) 28 E) 32

10.

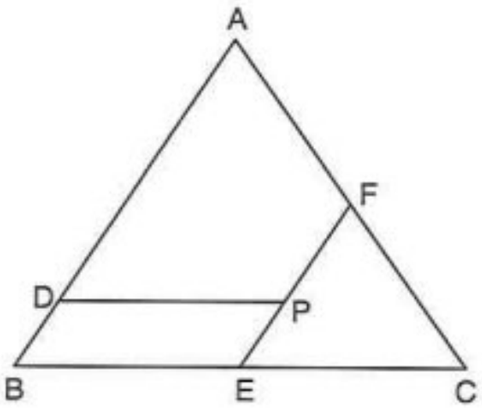


$|AB| = |AC| = |BC| = 12$ br
$|DC| = 2$ br

⇒ $|AD| = ?$

A) 3 B) $2\sqrt{13}$ C) $3\sqrt{3}$ D) $4\sqrt{7}$ E) $2\sqrt{31}$

11.



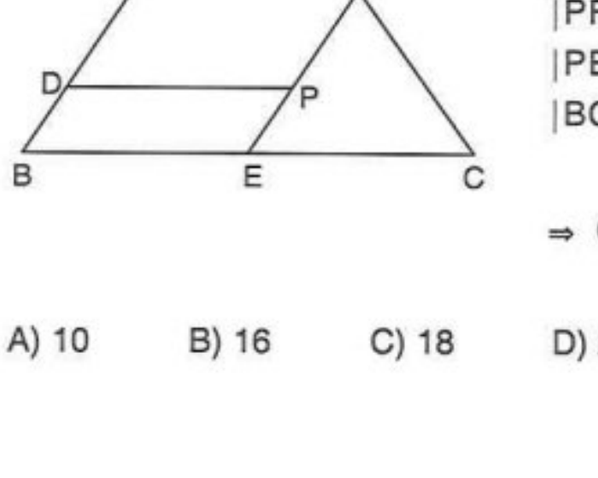
ABC eşkenar üçgen
(equilateral triangle)

$[EF] /\!/ [AB]$
$[PD] /\!/ [BC]$
$|PF| = 3$ br
$|PE| = 2$ br
$|BC| = 9$ br

⇒ **Ç(ADPF) = ?**

A) 10 B) 16 C) 18 D) 24 E) 27

12.



ABC eşkenar üçgen
(equilateral triangle)

$[AE] \perp [DE]$
$m(B\widehat{A}D) = m(C\widehat{A}E)$
$|AE| = 3\sqrt{3}$ br

⇒ $|AD| = x = ?$

A) 6 B) $6\sqrt{3}$ C) 9 D) $9\sqrt{3}$ E) 18

1. B	2. C	3. E	4. B	5. C	6. C
7. A	8. D	9. E	10. E	11. C	12. B

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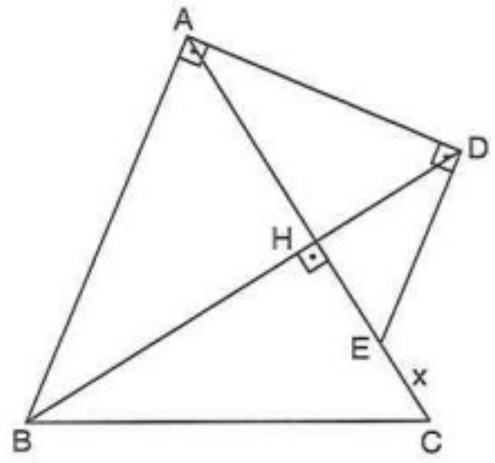
1.



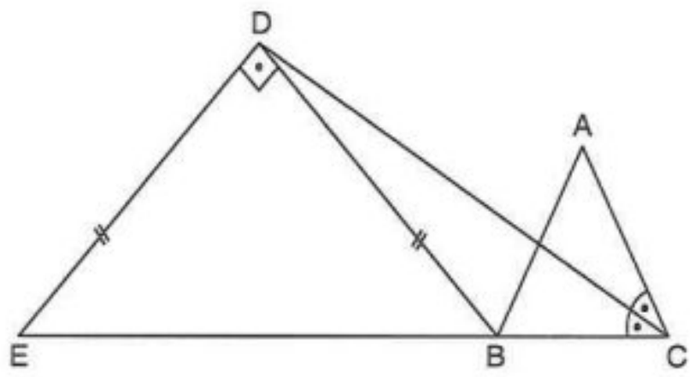
ABC eşkenar üçgen
(equilateral triangle)

$[AB] \perp [AD]$
$[AD] \perp [DE]$
$[AC] \perp [BD]$
$Ç(ABC) = 36\sqrt{3}$ br

⇒ $|CE| = x = ?$

A) $\sqrt{3}$ B) $2\sqrt{3}$ C) $3\sqrt{3}$ D) $4\sqrt{3}$ E) $5\sqrt{3}$

2.



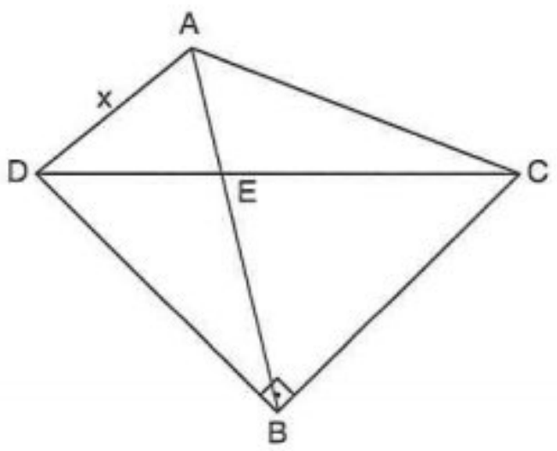
ABC eşkenar üçgen
(equilateral triangle)

$[ED] \perp [DB]$
$[CD]$ açıortay *(bisector)*
$|ED| = |BD|$
$|DC| = 10$ br

⇒ $|ED| = ?$

A) 5 B) $5\sqrt{2}$ C) 10 D) $10\sqrt{2}$ E) $10\sqrt{3}$

3.

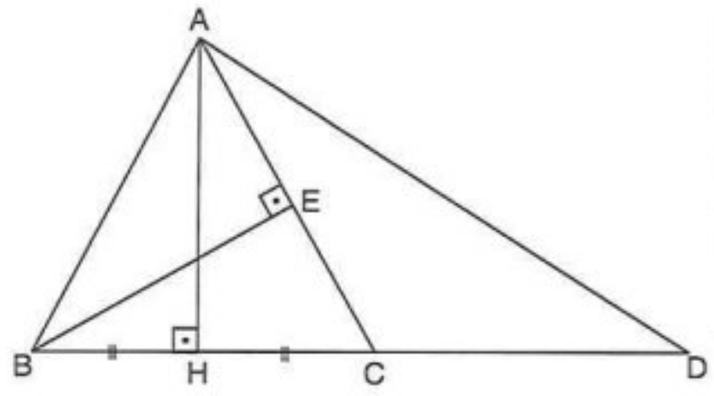


ABC eşkenar üçgen
(equilateral triangle)
$[BD] \perp [BC]$
$|BD| = |BC|$
$|DE| = 4$ br

⇒ $|AD| = x = ?$

A) 2 B) $2\sqrt{3}$ C) 4 D) $4\sqrt{3}$ E) 8

4.

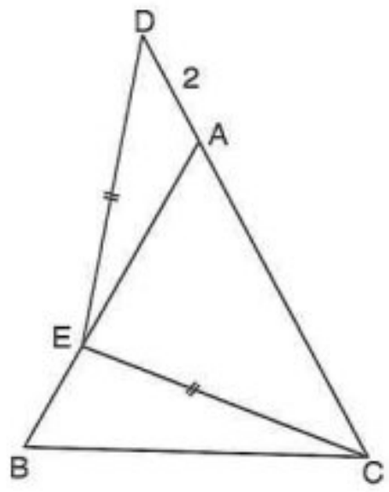


$[AH] \perp [BD]$
$[BE] \perp [AC]$
$|BH| = |HC|$
$|AE| = |EC|$
$|BC| = |CD|$

⇒ $m(\widehat{CAD}) = ?$

A) 15° B) 30° C) 45° D) 60° E) 75°

5.

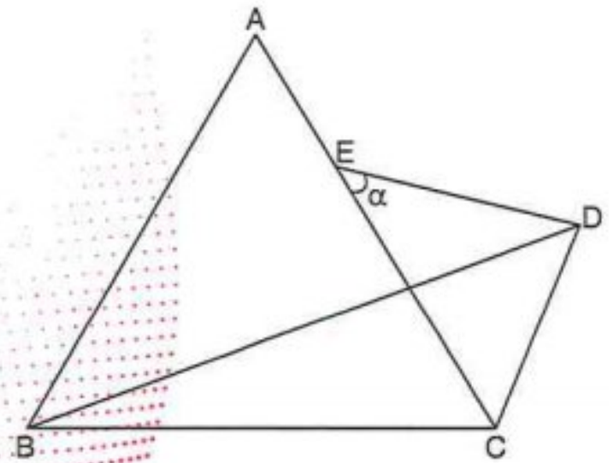


ABC eşkenar üçgen
(equilateral triangle)
$|DE| = |EC|$
$|AD| = 2$ br

⇒ $|BE| = x = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

6.



ABC eşkenar üçgen
(equilateral triangle)
$|BD| = |AC|$
$|ED| = |DC|$
$m(D\widehat{B}C) = 10°$

⇒ $m(\widehat{DCE}) = \alpha = ?$

A) 50° B) 45° C) 30° D) 25° E) 20°

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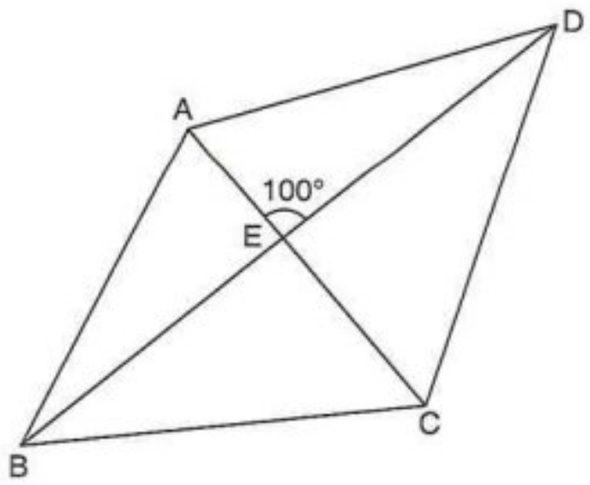
7.

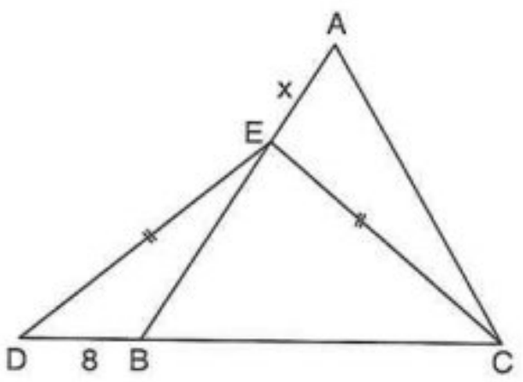


ABC eşkenar üçgen
(equilateral triangle)
$|AB| = |CD|$
$m(A\hat{E}D) = 100°$

⇒ $m(C\hat{A}D) = ?$

A) 30° B) 45° C) 50° D) 65° E) 80°

8.

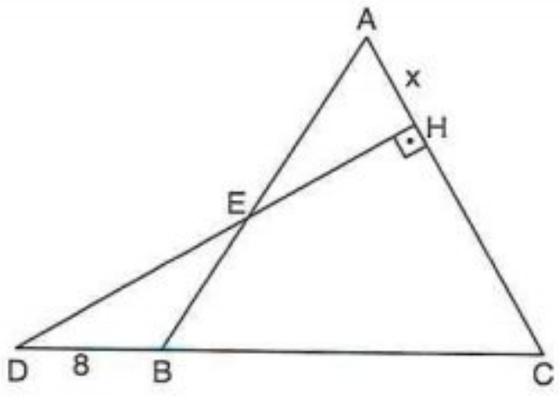


$|AB| = |BC| = |AC|$
$|DE| = |EC|$
$|BD| = 8$ br

⇒ $|AE| = x = ?$

A) 8 B) 9 C) 10 D) 12 E) 16

9.

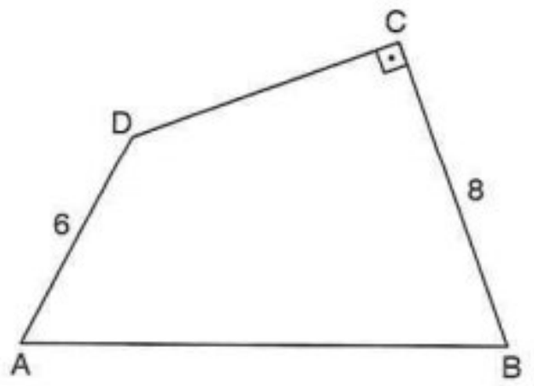


ABC eşkenar üçgen
(equilateral triangle)
$[DH] \perp [AC]$
$|BD| = 8$ br
$|AC| = 12$ br

⇒ $|AH| = x = ?$

A) 6 B) 5 C) 4 D) 3 E) 2

10.

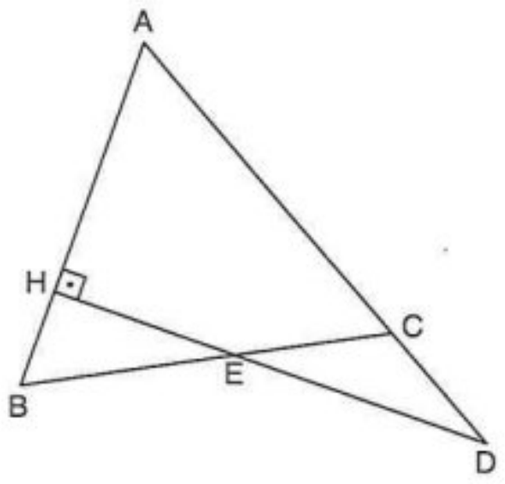


$[DC] \perp [BC]$
$m(D\hat{A}B) = m(A\hat{B}C) = 60°$
$|AD| = 6$ br
$|BC| = 8$ br

⇒ $|AB| = ?$

A) 8 B) 10 C) 12 D) 14 E) 15

11.

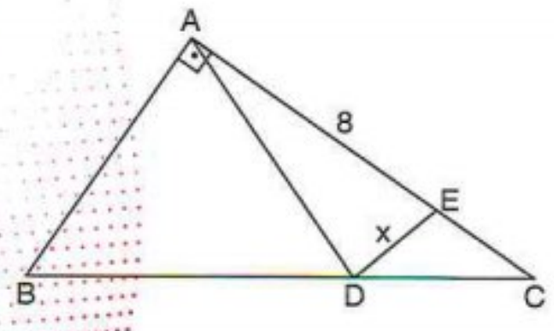


$[DH] \perp [AB]$
$|AC| = |BC|$
$|AB| = 18$ br
$|EH| = 5$ br
$|ED| = 8$ br

⇒ $|EB| = ?$

A) $4\sqrt{3}$ B) $5\sqrt{2}$ C) $5\sqrt{3}$ D) 10 E) 13

12.



ABD eşkenar üçgen
(equilateral triangle)
$[AB] \perp [AC]$
$|AE| = 8$ br
$|EC| = 4$ br

⇒ $|DE| = x = ?$

A) $\sqrt{2}$ B) 3 C) $2\sqrt{3}$ D) 4 E) 5

1. D	2. B	3. C	4. B	5. A	6. D
7. C	8. A	9. E	10. B	11. B	12. D

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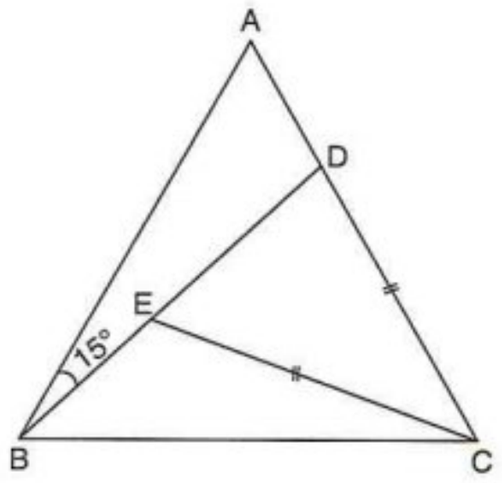
1.



ABC eşkenar üçgen
(equilateral triangle)

$|CD| = |CE|$

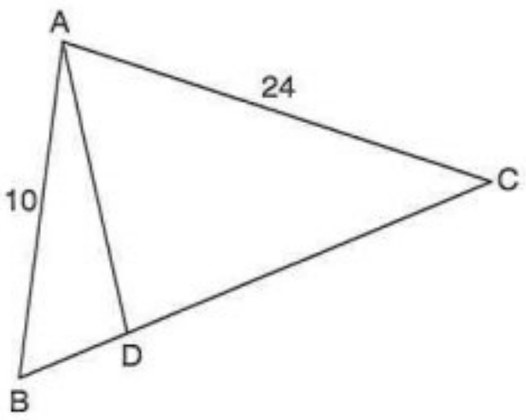
$m(\widehat{ABD}) = 15°$

$|BE| = 3\sqrt{6}$ br

⇒ $|AD| = ?$

A) $3\sqrt{3}$ B) $6\sqrt{3} - 9$ C) $9 - 3\sqrt{3}$ D) $6\sqrt{3}$ E) $6 + 3\sqrt{3}$

2.



$|AC| = |DC|$

$m(\widehat{BCA}) = 2m(\widehat{BAD})$

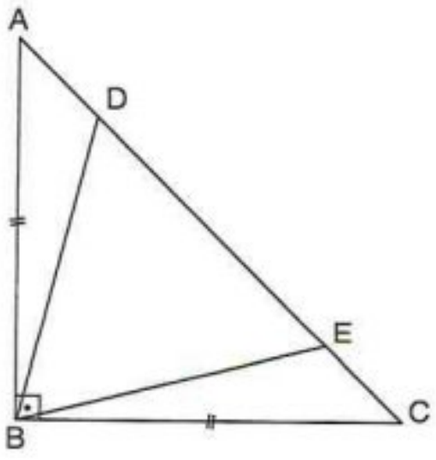
$|AB| = 10$ br

$|AC| = 24$ br

⇒ $|BD| = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

3.



$[AB] \perp [BC]$

$|AB| = |BC|$

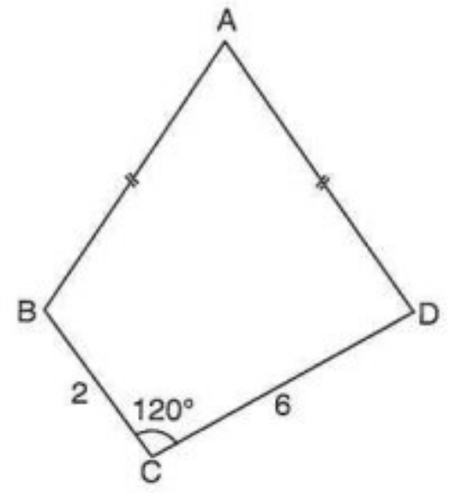
$|BD| = |DE| = |BE|$

$|EC| = 4\sqrt{3} - 4$

⇒ $|BD| = ?$

A) 4 B) $4\sqrt{2}$ C) $4\sqrt{3}$ D) 8 E) $8\sqrt{3}$

4.



$|AB| = |AD|$

$m(\widehat{BCD}) = 120°$

$m(\widehat{BAD}) = 60°$

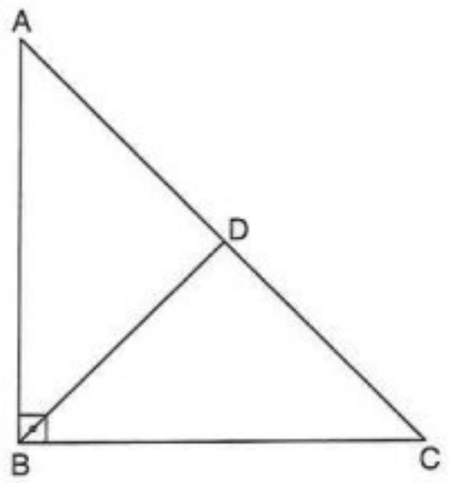
$|BC| = 2$ br

$|CD| = 6$ br

⇒ $|AB| = ?$

A) $2\sqrt{5}$ B) $4\sqrt{2}$ C) $2\sqrt{13}$ D) $4\sqrt{7}$ E) $6\sqrt{2}$

5.



$[AB] \perp [BC]$

$|BD| = |BC|$

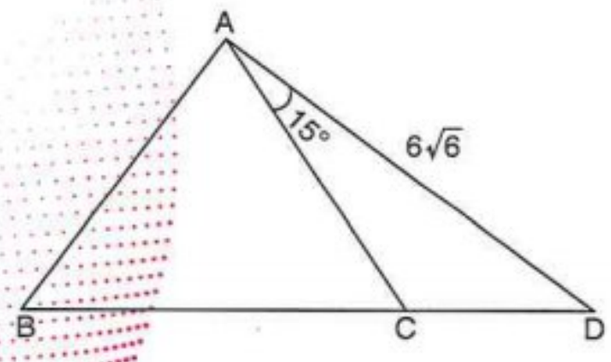
$|AD| = 9$ br

$|AB| = 6\sqrt{5}$ br

⇒ $|DC| = x = ?$

A) $9\sqrt{5}$ B) 9 C) $6\sqrt{5}$ D) 6 E) $3\sqrt{5}$

6.



ABC eşkenar üçgen
(equilateral triangle)

$m(\widehat{CAD}) = 15°$

$|AD| = 6\sqrt{6}$ br

⇒ $|BC| = ?$

A) $3\sqrt{6}$ B) 12 C) $6\sqrt{3}$ D) $12\sqrt{2}$ E) $12\sqrt{3}$

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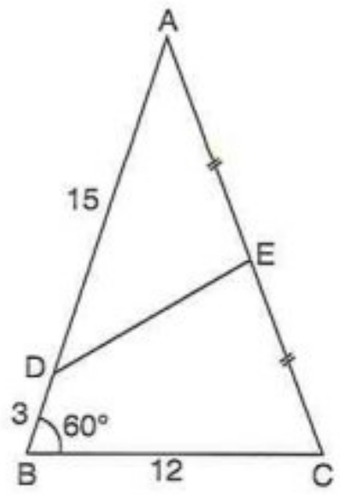
7.

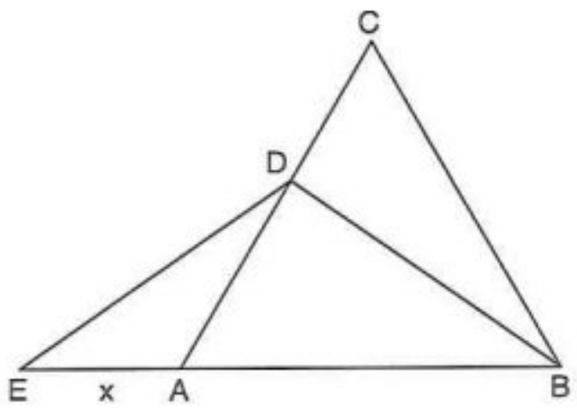


$m(A\widehat{B}C) = 60°$
$|AE| = |EC|$
$|BC| = 12$ br
$|AD| = 15$ br
$|BD| = 3$ br

⇒ $|DE| = ?$

A) $3\sqrt{2}$ B) $3\sqrt{3}$ C) 6 D) $6\sqrt{2}$ E) $6\sqrt{3}$

8.

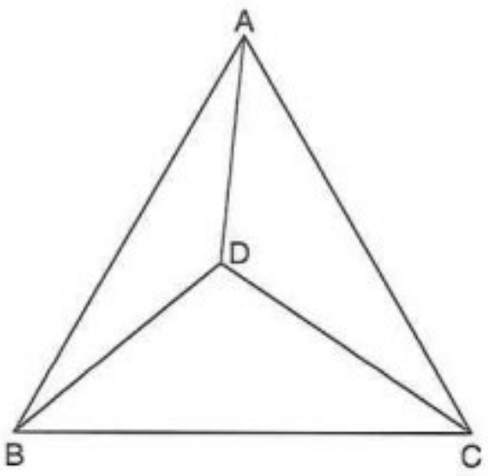


ABC eşkenar üçgen
(equilateral triangle)
$|DE| = |BD|$
$|AD| = 8$ br
$|BC| = 14$ br

⇒ $|AE| = x = ?$

A) 2 B) 3 C) 4 D) 6 E) 8

9.

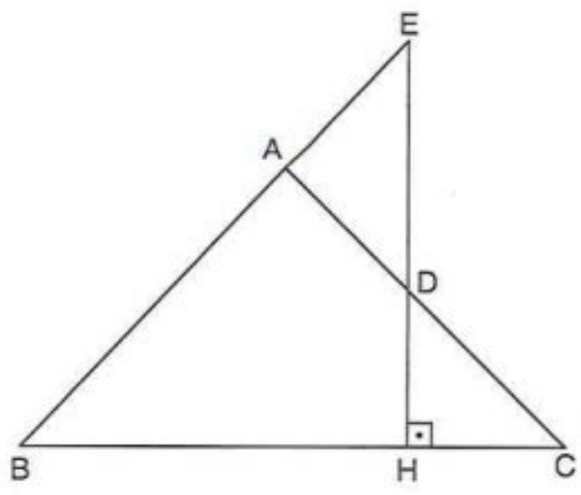


$|AB| = |AC| = |BC|$
$|AD| = |BD| = 3\sqrt{7}$ br
$|DC| = 6\sqrt{3}$ br

⇒ $|AC| = ?$

A) 11 B) 12 C) 13 D) 14 E) 15

10.

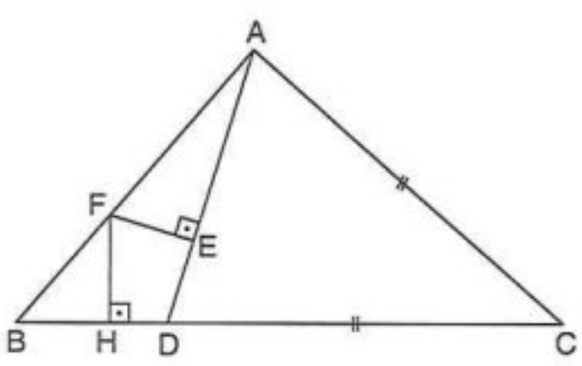


$[EH] \perp [BC]$
$|AB| = |AC| = 20$ br
$|ED| + 2|DH| = 32$ br

⇒ $|BC| = ?$

A) 24 B) 26 C) 28 D) 30 E) 32

11.

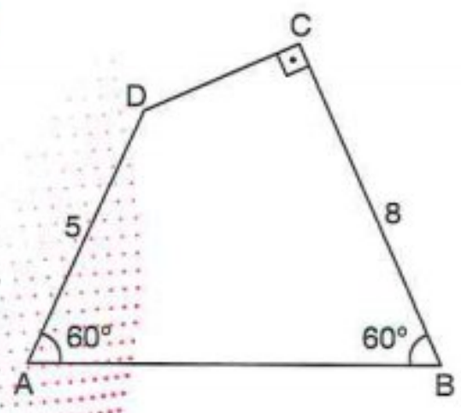


$[FH] \perp [BC]$
$[EF] \perp [AD]$
$|AC| = |DC| = 25$ br
$|EF| = 3$ br
$|FH| = 4$ br

⇒ $|AD| = |BD| = ?$

A) $4\sqrt{3}$ B) 7 C) $5\sqrt{2}$ D) $2\sqrt{13}$ E) $3\sqrt{6}$

12.



$[DC] \perp [DC]$
$m(D\widehat{A}B) = m(A\widehat{B}C) = 60°$
$|AD| = 5$ br
$|BC| = 8$ br

⇒ $|AB| = ?$

A) 9 B) 10 C) 11 D) 12 E) 13

1. C	2. A	3. D	4. C	5. D	6. B
7. E	8. D	9. E	10. A	11. C	12. C

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AÇIORTAY
BISECTOR

KONU KAVRAMA TESTİ
Thread Grip Test

ZİHİN HARİTASI
Mind Map

6
TEST
Tests

120
SORU
Questions

CANER eğitim kurumları YÖS

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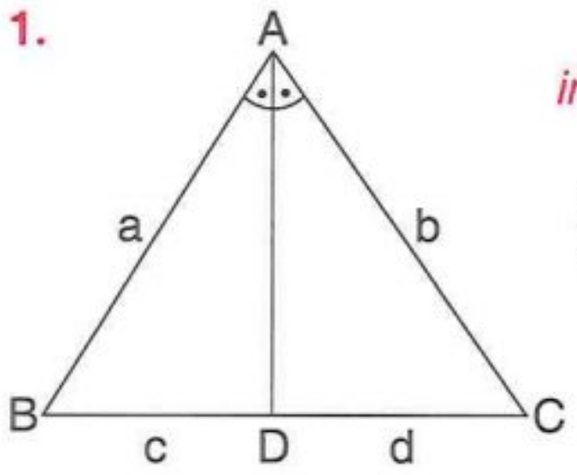
AÇIORTAY
BISECTOR

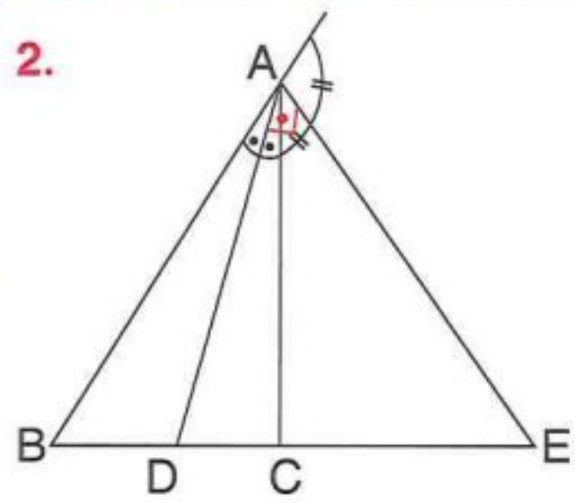
CANER eğitim kurumları

1. **İç Açıortay**
internal bisector



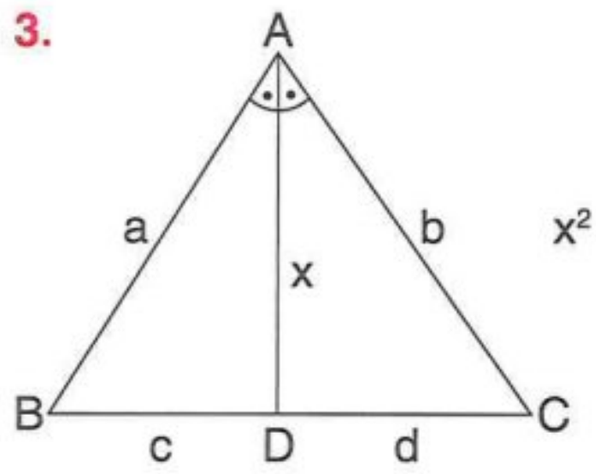
$\frac{a}{c}=\frac{b}{d}$ $\left(\frac{a}{b}=\frac{c}{c}\right)$

2.



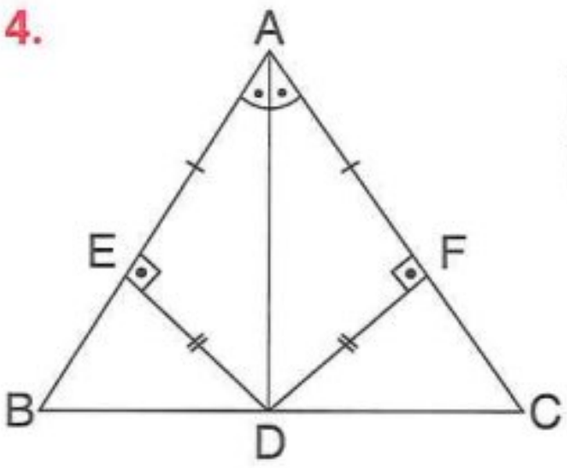
$m(D\widehat{A}E)=90°$

3.



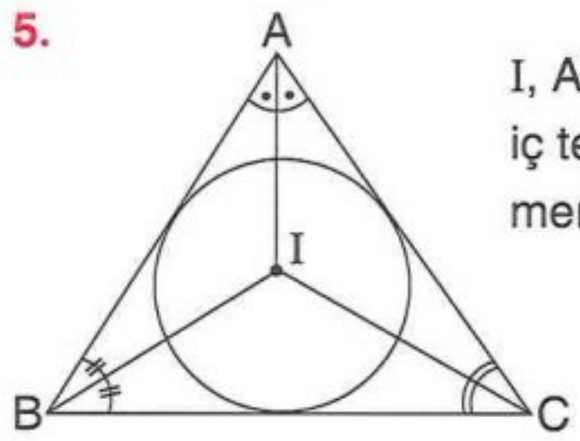
$x^2 = a \cdot b - c \cdot d$

4.



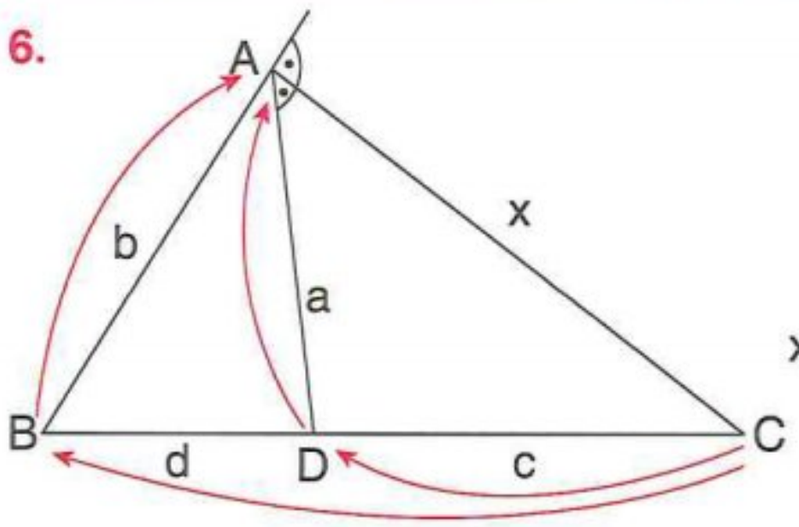
$|AE| = |AF|$
$|DE| = |DF|$

5.



I, ABC üçgeninin iç teğet çemberinin merkezi

6.



Dış Açıortay
external bisector

$\frac{c}{a}=\frac{c+d}{b}$

$x^2 = c\,(c + d) - a \cdot b$

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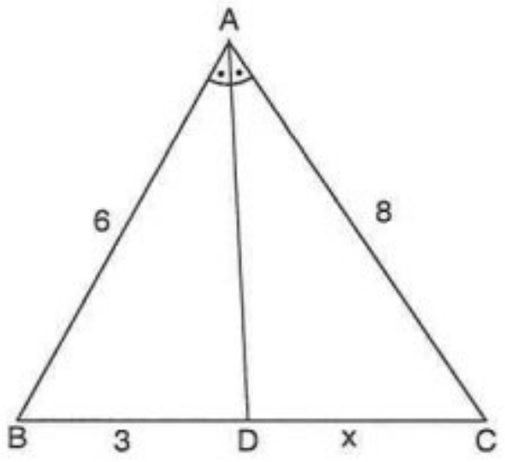
1.

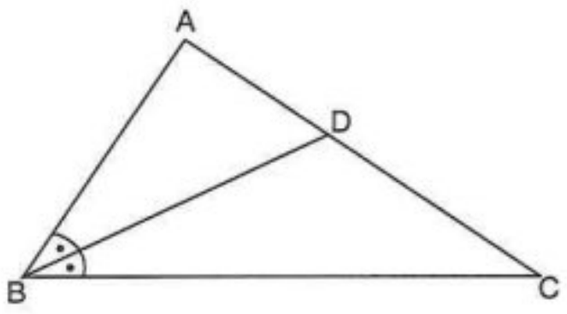


$m(\widehat{BAD}) = m(\widehat{DAC})$
$|AC| = 8\,br$
$|AB| = 6\,br$
$|BD| = 3\,br$

$\Rightarrow$ **$|DC| = x = ?$**

A) 2 B) 3 C) 4 D) 5 E) 6

2.

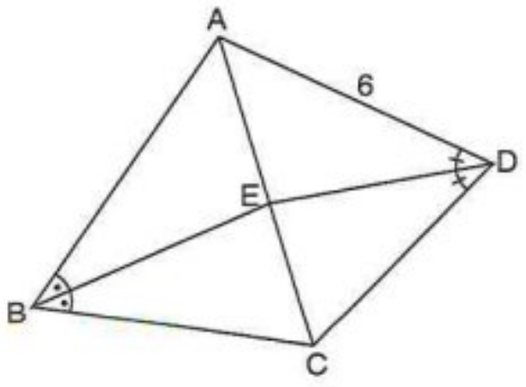


$m(\widehat{ABD}) = m(\widehat{DBC})$
$3|AB| = |BC|$
$|AD| = 4\,br$

$\Rightarrow$ **$|DC| = ?$**

A) 6 B) 8 C) 10 D) 12 E) 16

3.

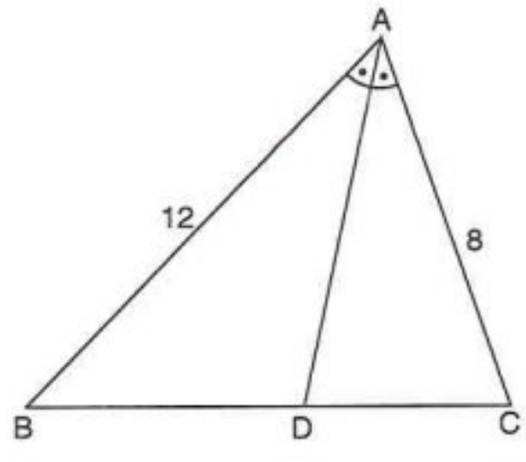


$m(\widehat{ABE}) = m(\widehat{EBC})$
$m(\widehat{ADE}) = m(\widehat{EDC})$
$2|AB| = 3|BC|$
$|AD| = 6\,br$

$\Rightarrow$ **$|DC| = ?$**

A) 4 B) 6 C) 8 D) 9 E) 12

4.

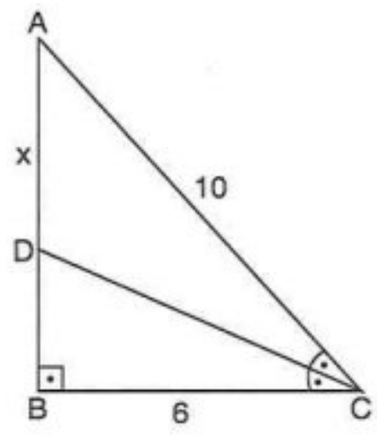


[AD] açıortay *(bisector)*
$|AB| = 12\,br$
$|AC| = 8\,br$
$|BC| = 10\,br$

$\Rightarrow$ **$|DC| = ?$**

A) 2 B) 3 C) 4 D) 5 E) 6

5.

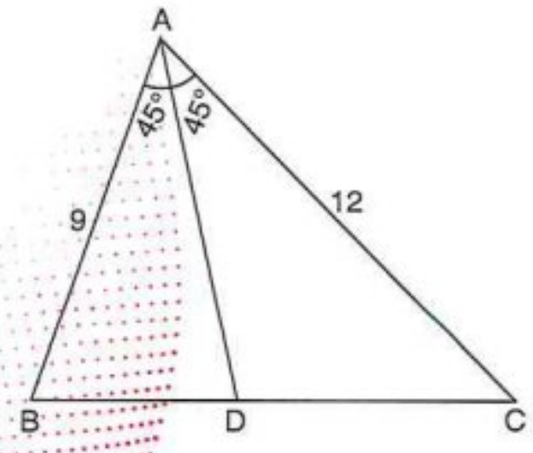


$[AB] \perp [BC]$
[CD] açıortay *(bisector)*
$|AC| = 10\,br$
$|BC| = 6\,br$

$\Rightarrow$ **$|AD| = x = ?$**

A) 3 B) 4 C) 5 D) 6 E) 7

6.



$m(\widehat{BAD}) = m(\widehat{DAC}) = 45°$
$|AB| = 9\,br$
$|AC| = 12\,br$

$\Rightarrow$ **$|BD| = ?$**

A) 6 B) $\frac{45}{7}$ C) $\frac{52}{7}$ D) $\frac{60}{7}$ E) 8

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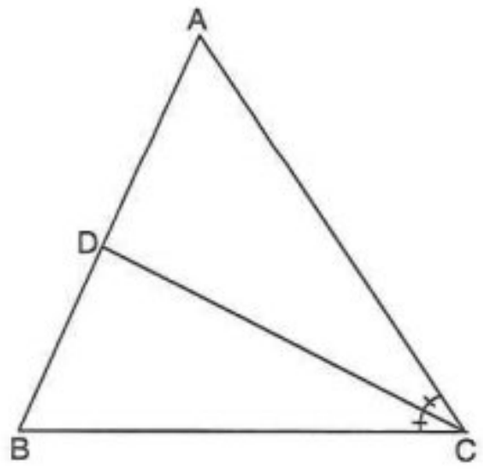
7.



$m(\widehat{ACD}) = m(\widehat{DCB})$

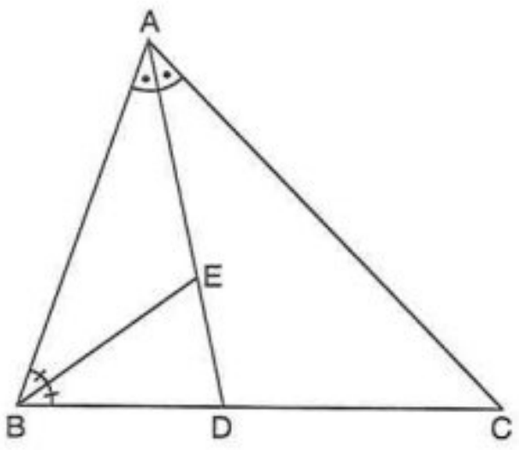
$\frac{|AC|}{|BC|} = \frac{4}{3}$

$|AB| = 21br$

⇒ $|BD| = ?$

A) 3 B) 6 C) 7 D) 9 E) 12

8.



[AD] , [BE] açıortay *(bisector)*

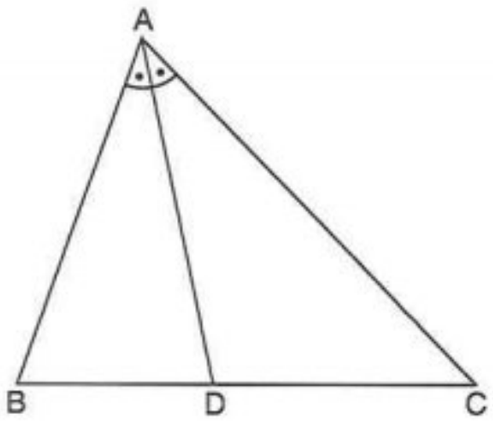
$6|BD| = 3|ED| = 2|DC|$

$|AE| = 3br$

⇒ $|AC| = ?$

A) $\frac{9}{2}$ B) 5 C) 6 D) $\frac{13}{2}$ E) 7

9.



[AD] açıortay *(bisector)*

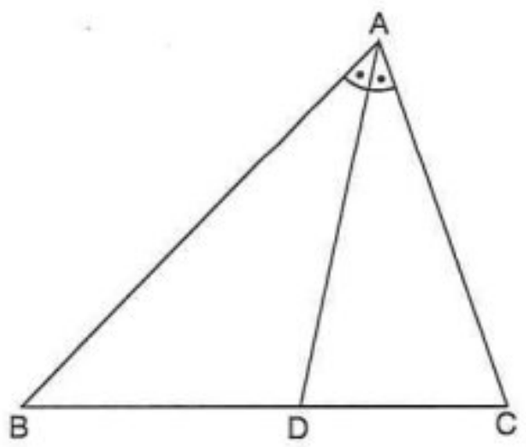
$5|BD| = 2|BC|$

$|AC| = 30br$

⇒ $|AB| = ?$

A) 12 B) 16 C) 18 D) 20 E) 24

10.



[AD] açıortay *(bisector)*

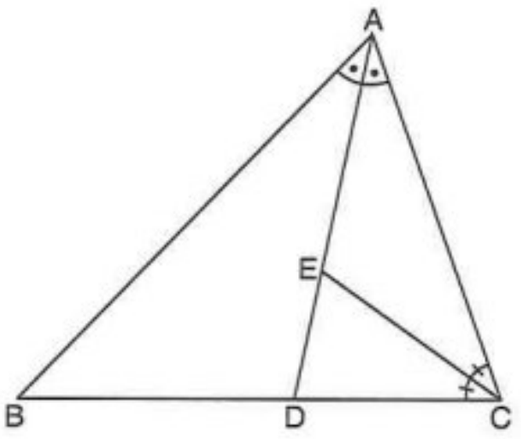
$5|AC| = 4|AB|$

$|BC| = 18br$

⇒ $|DC| = ?$

A) 4 B) 5 C) 6 D) 7 E) 8

11.



[AD] , [CE] açıortay *(bisector)*

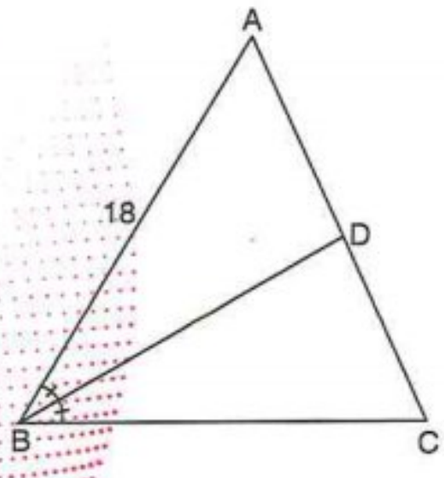
$\frac{|AE|}{|ED|} = \frac{4}{3}$

$|AB| = 12br$

⇒ $|BD| = ?$

A) 3 B) 6 C) 8 D) 9 E) 10

12.



[BD] açıortay *(bisector)*

$4|AD| = 3|BC|$

$|AB| = 18br$

$|DC| = 6br$

⇒ $|BC| = ?$

A) 8 B) 9 C) 10 D) 12 E) 16

1. C	2. D	3. A	4. C	5. C	6. B
7. D	8. A	9. D	10. E	11. D	12. D

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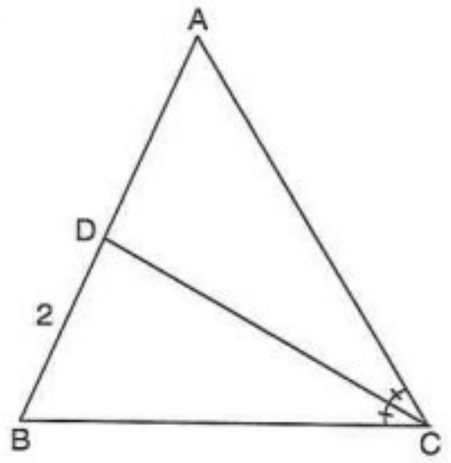
13.

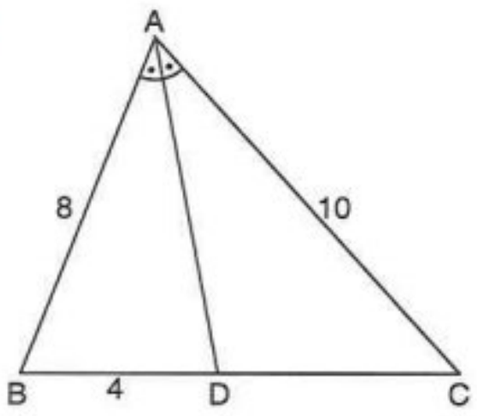


$m(\widehat{ACD}) = m(\widehat{DCB})$
$4|AD| = |AC|$
$|BD| = 2\,br$

$\Rightarrow$ **$|BC| = ?$**

A) 4 B) 6 C) 8 D) 10 E) 12

14.

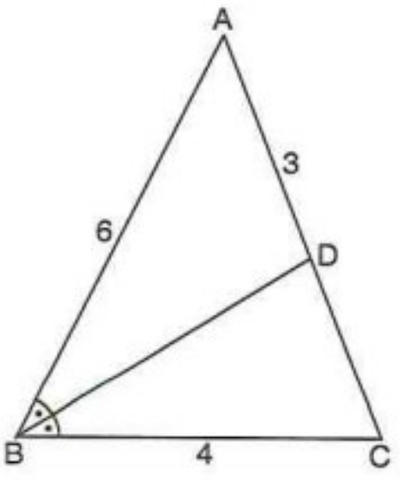


$m(\widehat{BAD}) = m(\widehat{DAC})$
$|AC| = 10\,br$
$|AB| = 8\,br$
$|BD| = 4\,br$

$\Rightarrow$ **$|AD| = ?$**

A) $2\sqrt{7}$ B) $4\sqrt{3}$ C) $5\sqrt{2}$ D) $2\sqrt{13}$ E) $2\sqrt{15}$

15.

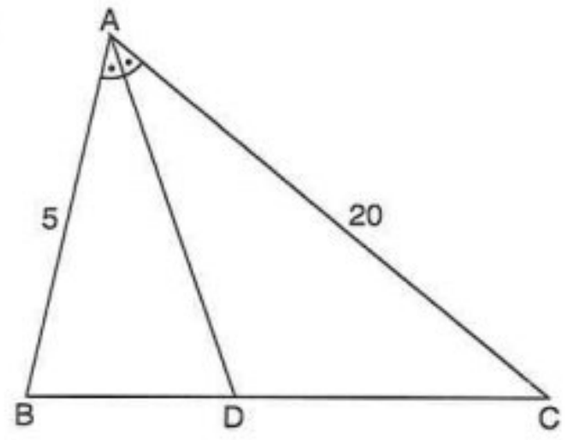


[BD] açıortay *(bisector)*
$|AB| = 6\,br$
$|BC| = 4\,br$
$|AD| = 3\,br$

$\Rightarrow$ **$|BD| = ?$**

A) 4 B) $3\sqrt{2}$ C) $2\sqrt{5}$ D) $2\sqrt{6}$ E) 5

16.

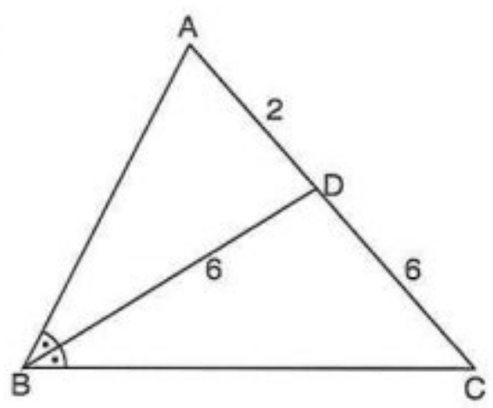


$m(\widehat{BAD}) = m(\widehat{DAC})$
$|AC| = 20\,br$
$|AD| = 6\,br$
$|AB| = 5\,br$

$\Rightarrow$ **$|BC| = ?$**

A) 16 B) 17 C) 18 D) 19 E) 20

17.

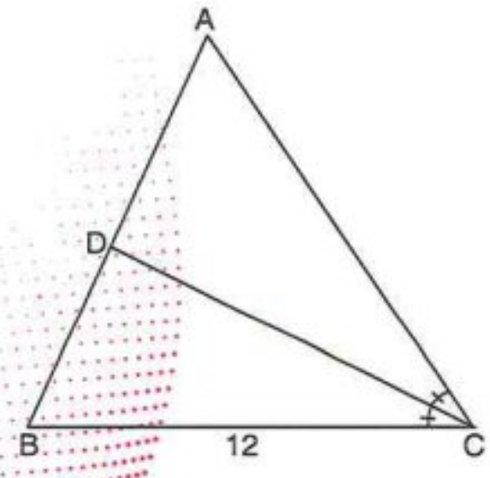


$m(\widehat{ABD}) = m(\widehat{DBC})$
$|AD| = 2\,br$
$|BD| = |DC| = 6\,br$

$\Rightarrow$ **$|AB| = ?$**

A) 4 B) 6 C) 8 D) 10 E) 12

18.



$m(\widehat{BCD}) = m(\widehat{DCA})$
$3|AD| = 2|AC|$
$|BC| = 12\,br$
$|DC| = 2\sqrt{10}\,br$

$\Rightarrow$ **$|AC| = ?$**

A) 3 B) 4 C) 5 D) 6 E) 8

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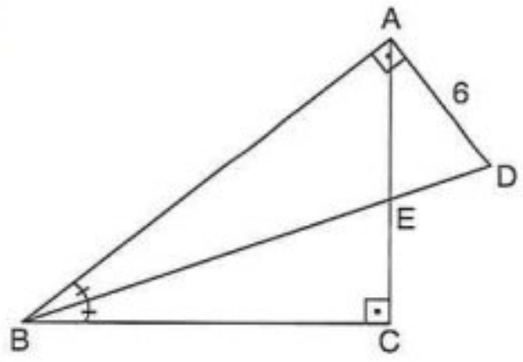
19.



$[AB] \perp [AD]$
$[AC] \perp [BC]$
$m(\widehat{ABD}) = m(\widehat{DBC})$
$|AD| = 6$ br

⇒ $|AE| = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

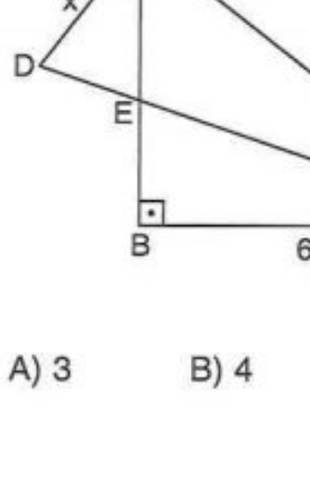
20.

$[AB] \perp [BC]$
$[AD] \perp [AC]$
$m(\widehat{ACD}) = m(\widehat{DCB})$
$|AC| = 10$ br
$|BC| = 6$ br

⇒ $|AD| = x = ?$

A) 3 B) 4 C) 5 D) 6 E) 8

21.

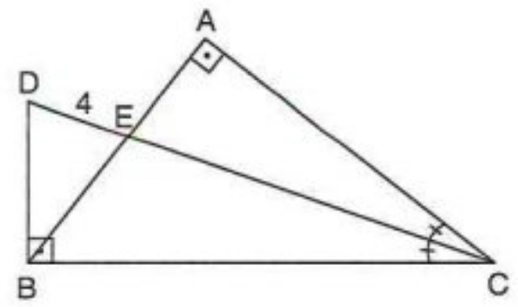


$[AB] \perp [BC]$
$[AC] \perp [CD]$
$m(\widehat{BAD}) = m(\widehat{DAC})$
$|AE| = 9$ br
$|ED| = 6$ br

⇒ $|AC| = ?$

A) $3\sqrt{2}$ B) $3\sqrt{5}$ C) $6\sqrt{2}$ D) $6\sqrt{5}$ E) 12

22.

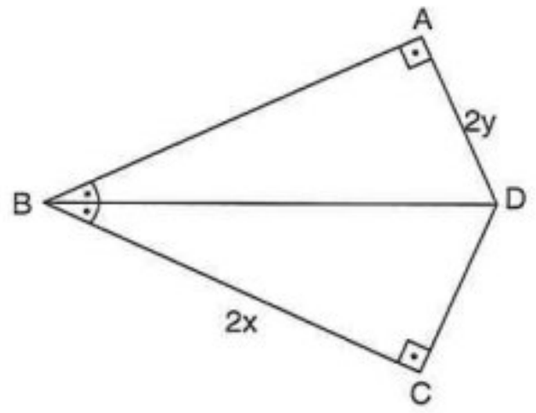


$[AB] \perp [AC]$
$[BD] \perp [BC]$
$[CD]$ açıortay *(bisector)*
$|EC| = 6$ br
$|DE| = 4$ br

⇒ $|BC| = ?$

A) $4\sqrt{5}$ B) $4\sqrt{6}$ C) $6\sqrt{2}$ D) $6\sqrt{5}$ E) $8\sqrt{2}$

23.



$[AB] \perp [AD]$
$[BC] \perp [CD]$
$[BD]$ açıortay *(bisector)*
$|AB| = (x+6)$ br
$|BC| = 2x$ br
$|AD| = 2y$ br
$|DC| = (y+3)$ br

⇒ $x + y = ?$

A) 7 B) 8 C) 9 D) 10 E) 11

24.

$[AB] \perp [AD]$
$[BC] \perp [CD]$
$m(\widehat{ABD}) = m(\widehat{DBC})$
$|AB| = (2a+5)$ br
$|BC| = (a+7)$ br
$|AD| = (a+1)$ br

⇒ $|DC| = x = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

13. C	14. E	15. B	16. E	17. A	18. D
19. E	20. C	21. D	22. A	23. C	24. B

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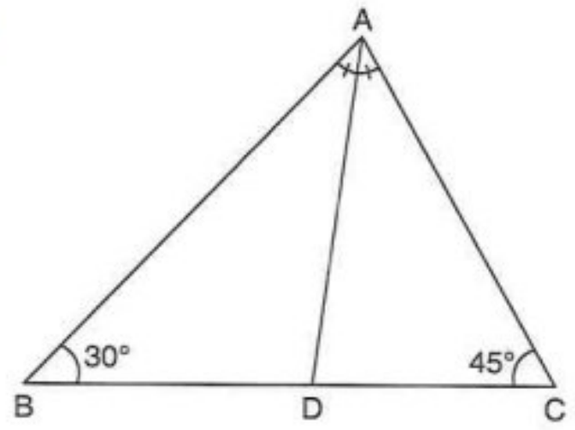
25.

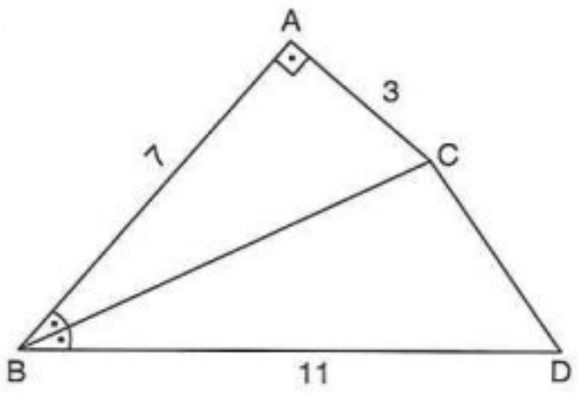


$m(\widehat{BAD}) = m(\widehat{DAC})$
$m(\widehat{ABC}) = 30°$
$m(\widehat{ACB}) = 45°$
$|DC| = 2\sqrt{6}$ br

⇒ $|BD| = ?$

A) 6 B) $4\sqrt{2}$ C) $4\sqrt{3}$ D) 6 E) $6\sqrt{2}$

26.

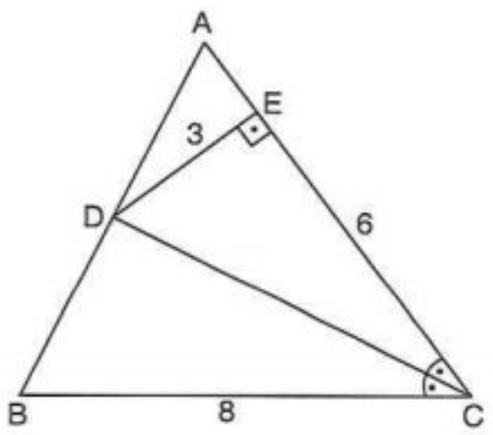


[BC] açıortay *(bisector)*
$[AB] \perp [AC]$
$|AC| = 3$ br
$|AB| = 7$ br
$|BD| = 11$ br

⇒ $|CD| = ?$

A) 4 B) $3\sqrt{2}$ C) $2\sqrt{5}$ D) 5 E) $3\sqrt{3}$

27.

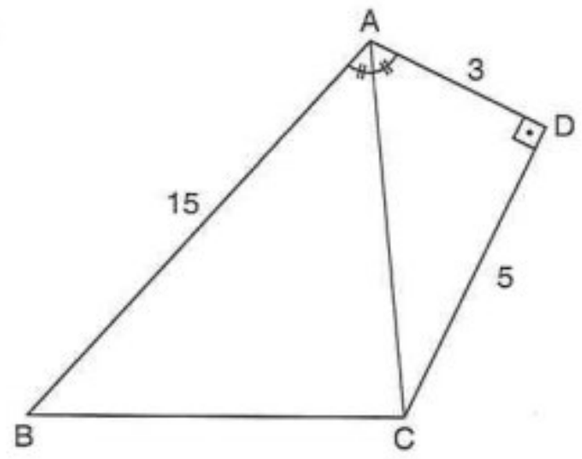


$m(\widehat{ACD}) = m(\widehat{DCB})$
$[DE] \perp [AC]$
$|DE| = 3$ br
$|EC| = 6$ br
$|BC| = 8$ br

⇒ $|BD| = ?$

A) $2\sqrt{3}$ B) $\sqrt{13}$ C) $\sqrt{14}$ D) $\sqrt{15}$ E) 4

28.

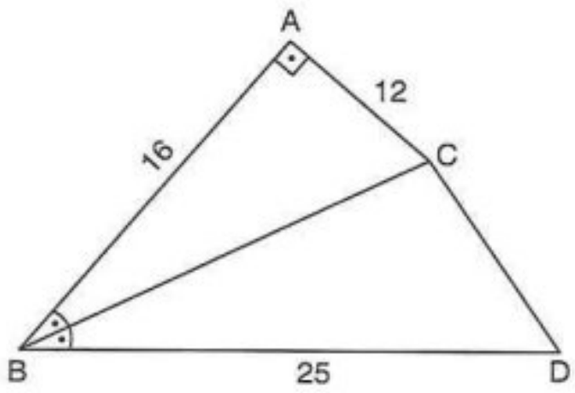


$m(\widehat{BAC}) = m(\widehat{CAD})$
$[AD] \perp [DC]$
$|AD| = 3$ br
$|DC| = 5$ br
$|AB| = 15$ br

⇒ $|BC| = ?$

A) 8 B) 10 C) 12 D) 13 E) 15

29.

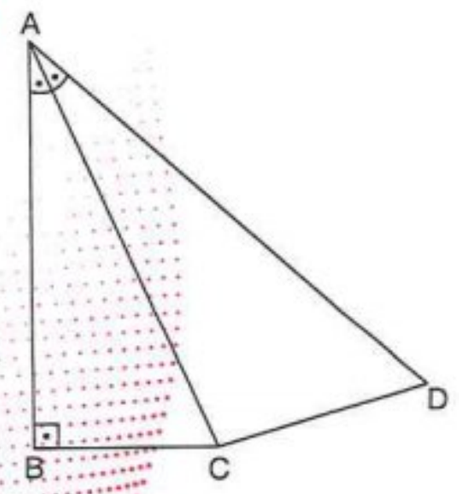


[BC] açıortay *(bisector)*
$[AB] \perp [AC]$
$|AC| = 12$ br
$|AB| = 16$ br
$|BD| = 25$ br

⇒ $|CD| + |BC| = ?$

A) 15 B) 20 C) 25 D) 30 E) 35

30.



$[AB] \perp [BC]$
$m(\widehat{BAC}) = m(\widehat{CAD})$
$|AB| = 10$ br
$|BC| = 9$ br
$|AD| = 22$ br

⇒ $|CD| = ?$

A) 13 B) 15 C) 17 D) 20 E) 25

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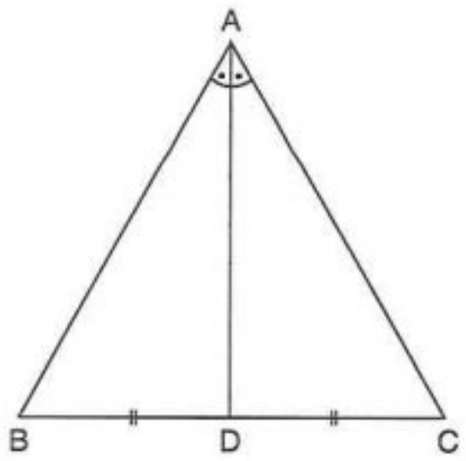
31.

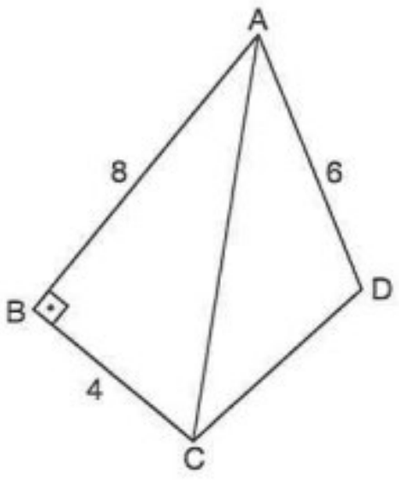


$m(\widehat{BAD}) = m(\widehat{DAC})$
$|BD| = |DC|$
$|AD| = 5\,br$
$|BC| = 24\,br$

$\Rightarrow |\mathbf{AC}| = ?$

A) 10 B) 11 C) 12 D) 13 E) 14

32.

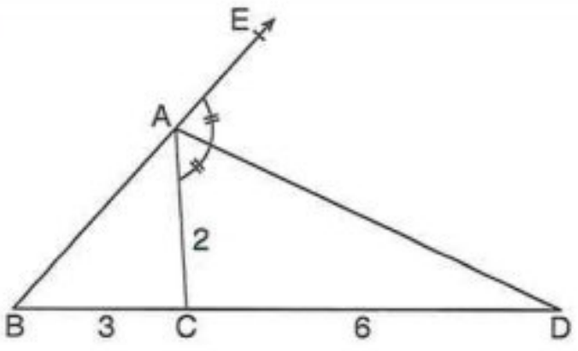


$[AB] \perp [BC]$
$m(\widehat{BAC}) = m(\widehat{CAD})$
$|BC| = 4\,br$
$|AD| = 6\,br$
$|AB| = 8\,br$

$\Rightarrow |\mathbf{DC}| = ?$

A) $3\sqrt{2}$ B) $2\sqrt{5}$ C) 5 D) 6 E) $4\sqrt{5}$

33.

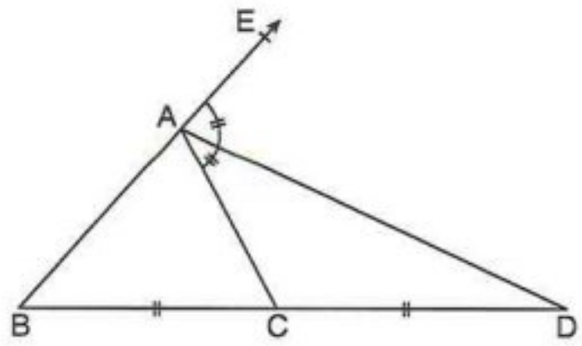


$m(\widehat{CAD}) = m(\widehat{DAE})$
$|AC| = 2\,br$
$|CD| = 6\,br$
$|BC| = 3\,br$

$\Rightarrow |\mathbf{AB}| = ?$

A) 3 B) 4 C) 6 D) 8 E) 12

34.

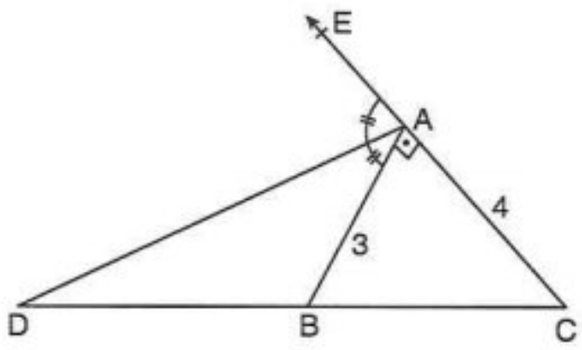


$m(\widehat{CAD}) = m(\widehat{DAE})$
$|BC| = |CD|$
$|AC| = 6\,br$

$\Rightarrow |\mathbf{AB}| = ?$

A) 6 B) 9 C) 12 D) 15 E) 18

35.

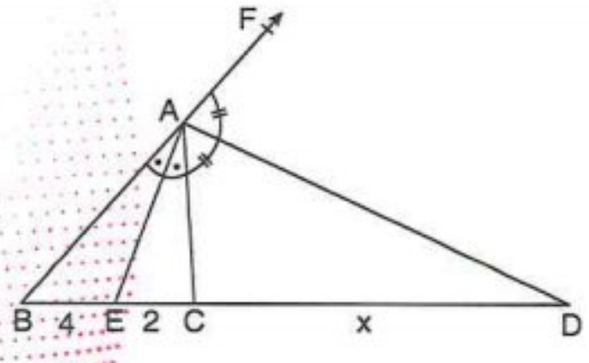


$m(\widehat{DAE}) = m(\widehat{BAD})$
$[AB] \perp [CE]$
$|AB| = 3\,br$
$|AC| = 4\,br$

$\Rightarrow |\mathbf{DB}| = ?$

A) 10 B) 12 C) 15 D) 18 E) 20

36.



$m(\widehat{BAE}) = m(\widehat{EAC})$
$m(\widehat{CAD}) = m(\widehat{DAF})$
$|BE| = 4\,br$
$|EC| = 2\,br$

$\Rightarrow |\mathbf{CD}| = \mathbf{x} = ?$

A) 4 B) 5 C) 6 D) 8 E) 10

25. C	26. D	27. B	28. D	29. E	30. B
31. D	32. B	33. A	34. C	35. C	36. C

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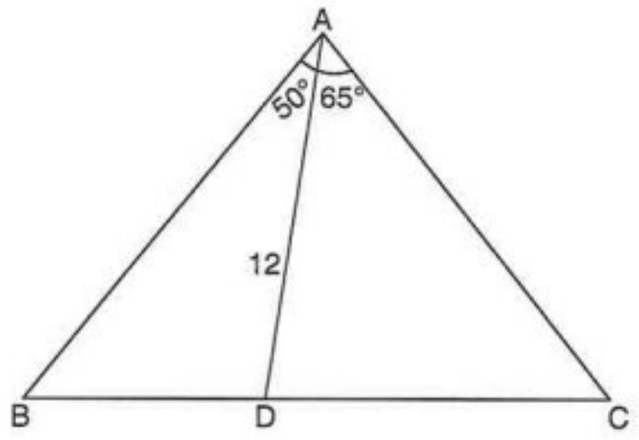
37

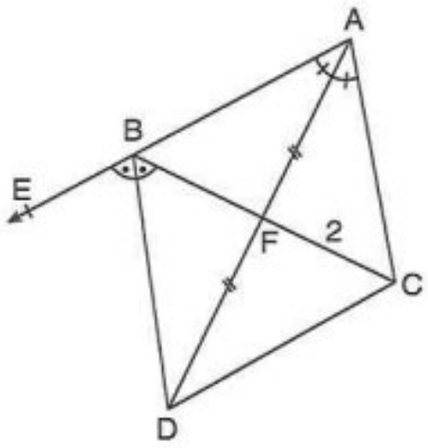


$m(\widehat{BAD}) = 50°$
$m(\widehat{DAC}) = 65°$
$|DC| = 3|BD|$
$|AD| = 12$ br

⇒ $|AB| = ?$

A) 9 B) 12 C) 15 D) 16 E) 18

38.

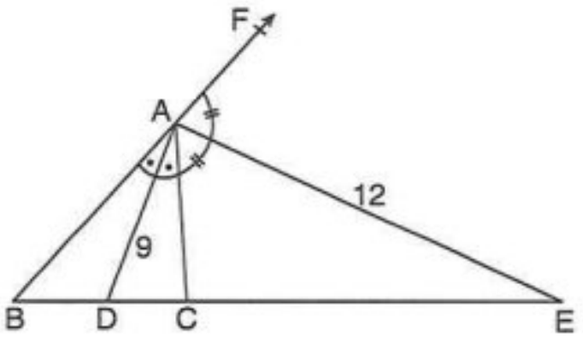


$m(\widehat{EBD}) = m(\widehat{DBC})$
$m(\widehat{EAD}) = m(\widehat{DAC})$
$|AF| = |FD|$
$|FC| = 2$ br

⇒ $|AC| = ?$

A) 4 B) 6 C) 8 D) 10 E) 12

39.

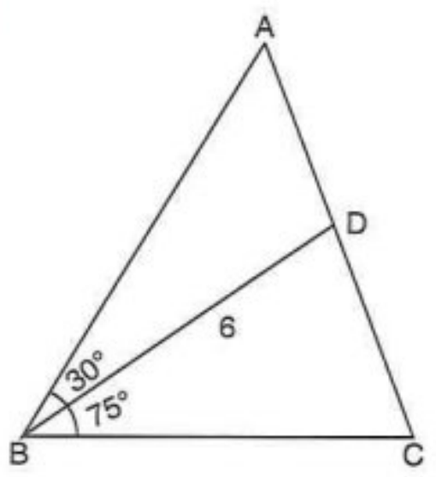


$m(\widehat{BAD}) = m(\widehat{DAC})$
$m(\widehat{CAE}) = m(\widehat{EAF})$
$|AD| = 9$ br
$|AE| = 12$ br

⇒ $|DE| = ?$

A) 13 B) 15 C) 16 D) 17 E) 18

40.

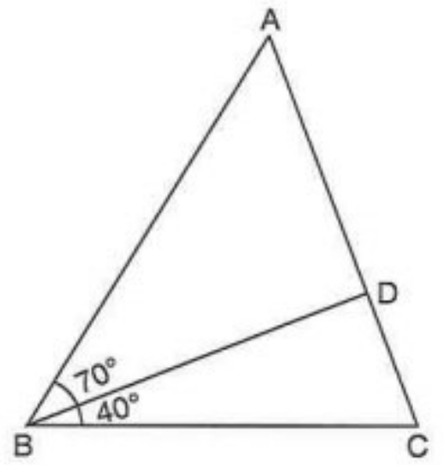


$m(\widehat{ABD}) = 30°$
$m(\widehat{DBC}) = 75°$
$3|AD| = 2|DC|$
$|BD| = 6$ br

⇒ $|AB| = ?$

A) 9 B) 10 C) 12 D) 15 E) 20

41.

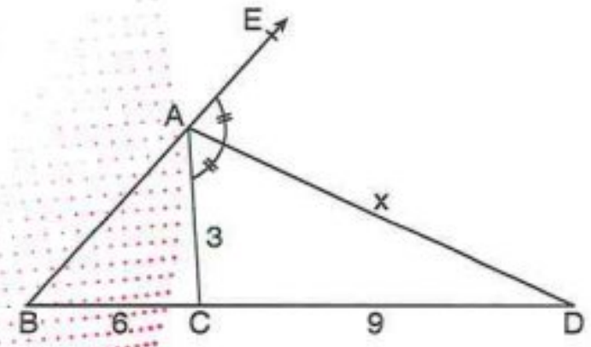


$\frac{|DC|}{|AC|} = \frac{1}{4}$
$|BD| = 9$ br

⇒ $|BC| = ?$

A) 10 B) 12 C) 15 D) 16 E) 18

42.



$m(\widehat{EAD}) = m(\widehat{DAC})$
$|AC| = 3$ br
$|CD| = 9$ br
$|BC| = 6$ br

⇒ $|AD| = x = ?$

A) $2\sqrt{30}$ B) $\sqrt{15}$ C) 4 D) $2\sqrt{5}$ E) 5

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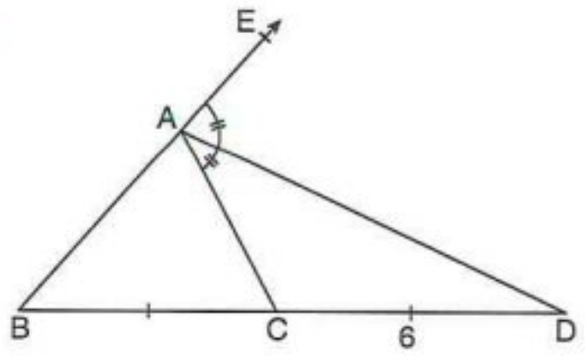
43.

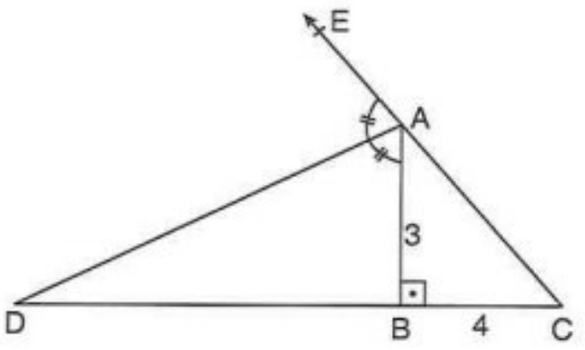


$m(\widehat{EAD}) = m(\widehat{DAC})$
$|BC| = |CD| = 6$ br
$|AC| = 4$ br

$\Rightarrow$ **$|AD| = ?$**

A) $\sqrt{15}$ B) 4 C) $3\sqrt{2}$ D) $2\sqrt{5}$ E) $2\sqrt{10}$

44.

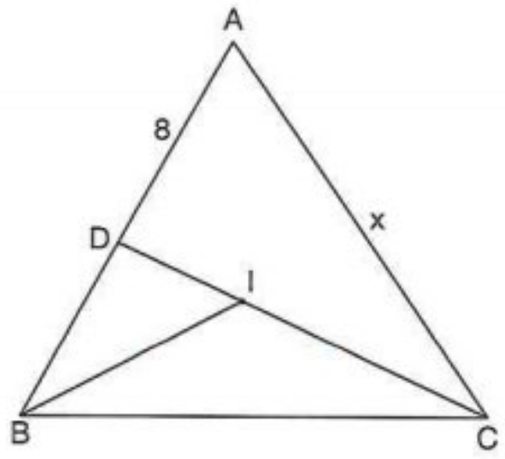


$[AB] \perp [DC]$
$m(\widehat{EAD}) = m(\widehat{DAB})$
$|AB| = 3$ br
$|BC| = 4$ br

$\Rightarrow$ **$|AD| = ?$**

A) $2\sqrt{5}$ B) $3\sqrt{5}$ C) $4\sqrt{3}$ D) $6\sqrt{2}$ E) $4\sqrt{5}$

45.

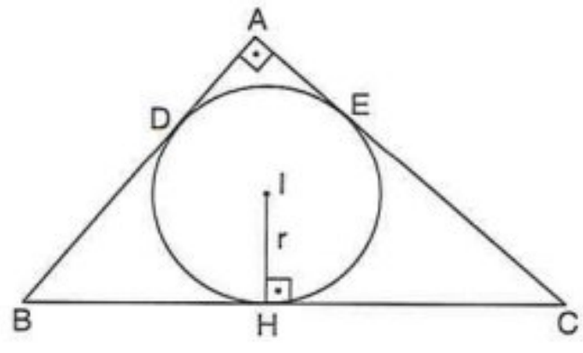


I, iç teğet çemberinin merkezi (*I, the central point of the inner tangential circle*)
$|AD| = 8$ br
$2|BC| = 3|BD|$

$\Rightarrow$ **$|AC| = x = ?$**

A) 10 B) 12 C) 16 D) 18 E) 24

46.

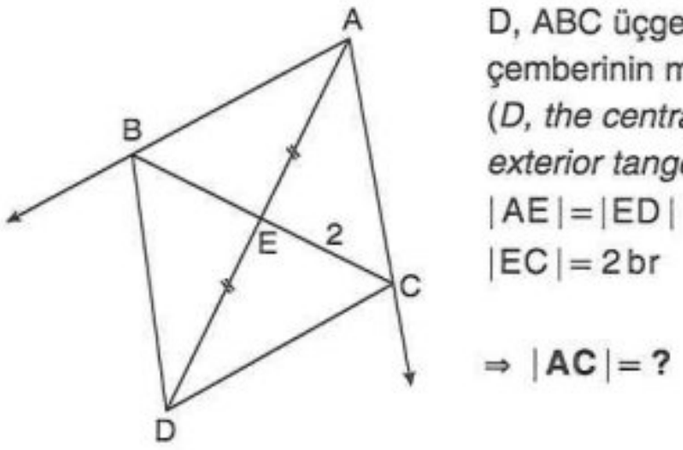


I, iç teğet çemberinin merkezi,
(I, *the central point of the inner tangential circle*)
$[AB] \perp [AC]$
$|BD| = 4$ br
$|EC| = 6$ br

$\Rightarrow$ **$|IH| = r = ?$**

A) 2 B) 3 C) 4 D) 5 E) 6

47.

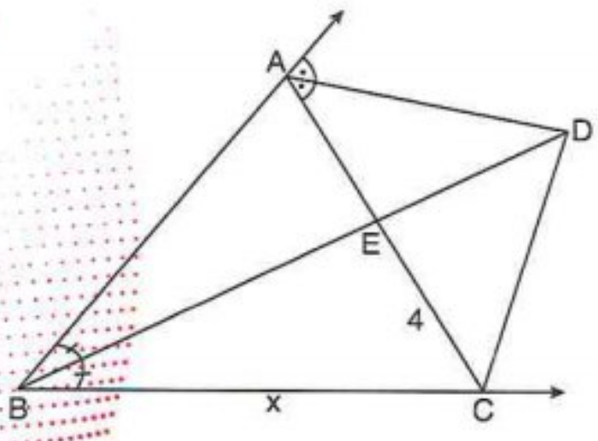


D, ABC üçgeninin dış teğet çemberinin merkezi,
(*D, the central point of the exterior tangential circle*)
$|AE| = |ED|$
$|EC| = 2$ br

$\Rightarrow$ **$|AC| = ?$**

A) 2 B) 3 C) 4 D) 6 E) 8

48.



[BD] iç açıortay (*interior bisector*)
[AD] dış açıortay (*exterior bisector*)
$3|ED| = |EB|$
$|EC| = 4$ br

$\Rightarrow$ **$|BC| = x = ?$**

A) 8 B) 10 C) 12 D) 14 E) 16

37. D	38. A	39. B	40. B	41. B	42. A
43. E	44. B	45. B	46. A	47. C	48. E

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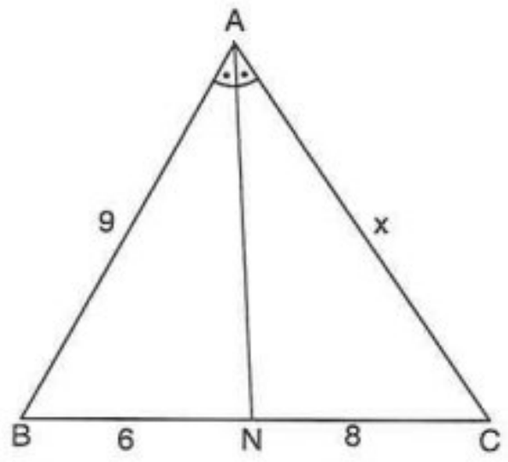
الممسوحة ضوئيا بـ CamScanner

1.

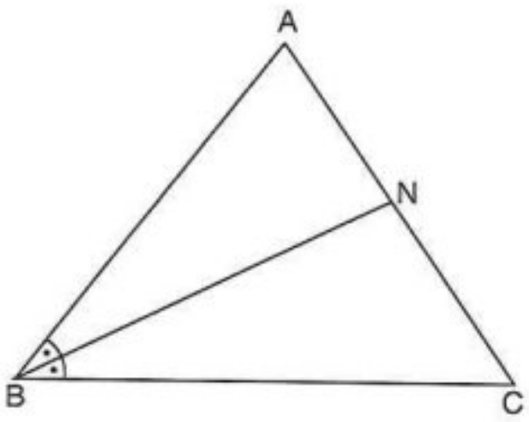


[AN] açıortay *(bisector)*
$|AB| = 9$ br
$|NC| = 8$ br
$|BN| = 6$ br

⇒ $|\mathbf{AC}| = \mathbf{x} = ?$

A) 10 B) 12 C) 15 D) 16 E) 18

2.

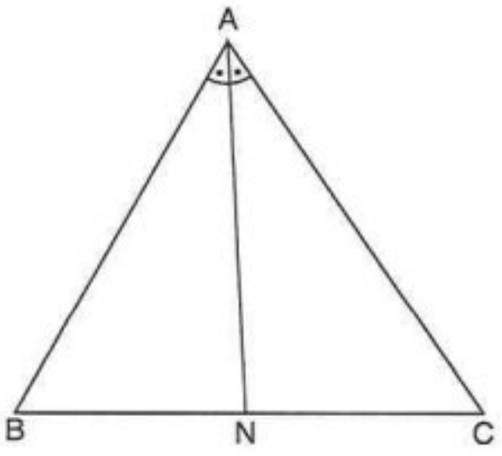


[BN] açıortay *(bisector)*
$|NC| = 2|AN|$
$|BC| = 12$ br

⇒ $|\mathbf{AB}| = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

3.

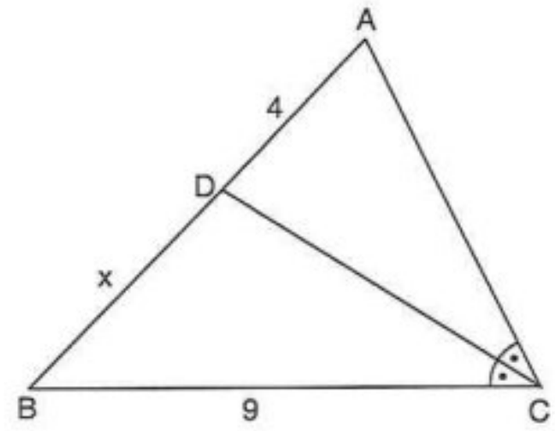


[AN] açıortay *(bisector)*
$\frac{|AC|}{|AB|} = \frac{4}{3}$
$|NC| = 12$ br

⇒ $|\mathbf{BC}| = ?$

A) 15 B) 18 C) 20 D) 21 E) 24

4.

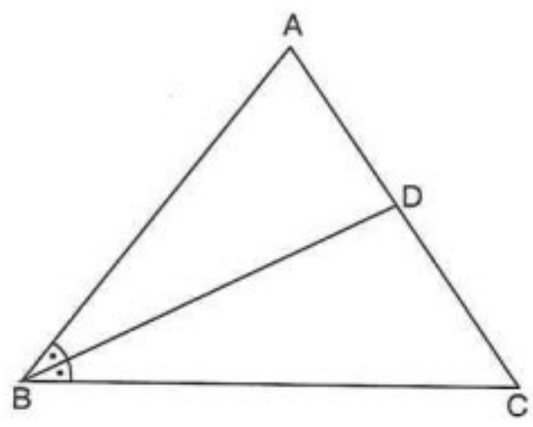


[CD] açıortay *(bisector)*
$|AD| = 4$ br
$|BC| = 9$ br

⇒ $|\mathbf{BD}| = |\mathbf{AC}| = \mathbf{x} = ?$

A) 5 B) 6 C) 7 D) 8 E) 9

5.

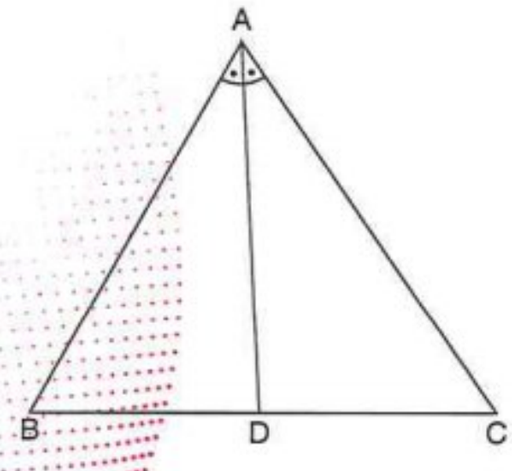


$m(\widehat{ABD}) = m(\widehat{DBC})$
$2|AD| = 3|DC|$
$|AB| = 9$ br

⇒ $|\mathbf{BC}| = ?$

A) 4 B) 6 C) 8 D) 9 E) 12

6.



$m(\widehat{BAD}) = m(\widehat{DAC})$
$5|BD| = 2|BC|$
$|AB| = 8$ br

⇒ $|\mathbf{AC}| = ?$

A) 9 B) 10 C) 11 D) 12 E) 15

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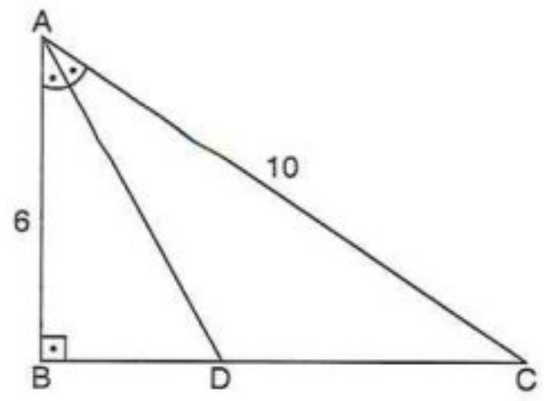
7.

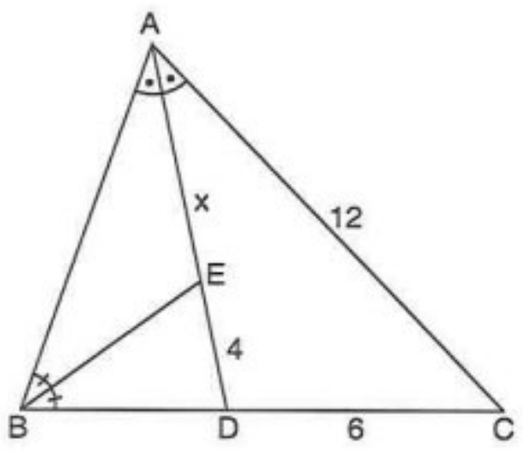


$[AB] \perp [BC]$
$m(\widehat{BAD}) = m(\widehat{DAC})$
$|AB| = 6$ br
$|AC| = 10$ br

⇒ $|AD| = ?$

A) $3\sqrt{5}$ B) $5\sqrt{2}$ C) 8 D) $6\sqrt{2}$ E) $6\sqrt{5}$

8.

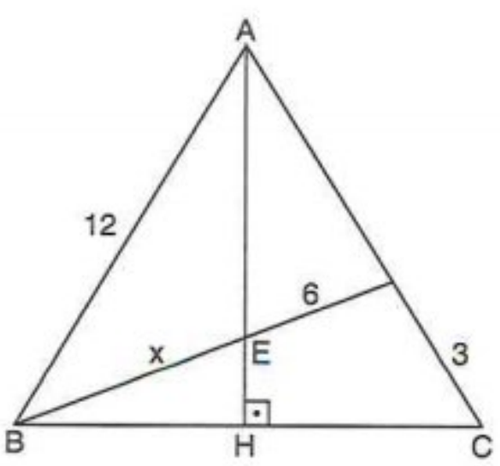


[AD] , [BE] açıortay, *(bisector)*
$|AC| = 12$ br
$|DC| = 6$ br
$|ED| = 4$ br

⇒ $|AE| = x = ?$

A) 6 B) 8 C) 10 D) 12 E) 16

9.

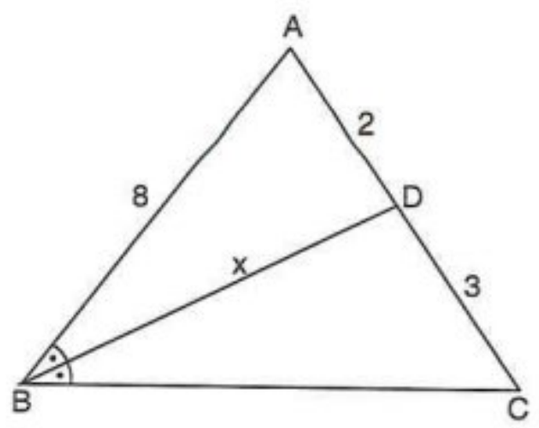


$[AH] \perp [BC]$
$|BH| = |HC|$
$|AB| = 12$ br
$|ED| = 6$ br
$|DC| = 3$ br

⇒ $|BE| = x = ?$

A) 4 B) 6 C) 8 D) 9 E) 10

10.

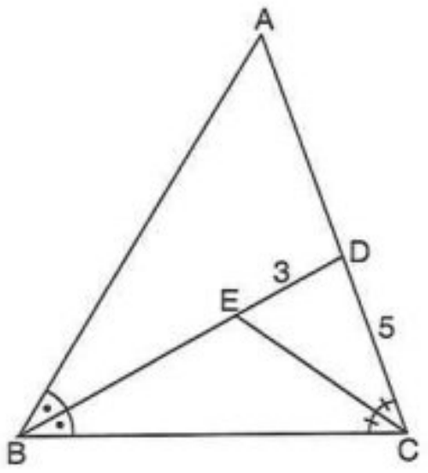


$m(\widehat{ABD}) = m(\widehat{DBC})$
$|AB| = 8$ br
$|DC| = 3$ br
$|AD| = 2$ br

⇒ $|BD| = x = ?$

A) 9 B) $3\sqrt{10}$ C) $4\sqrt{6}$ D) 10 E) 12

11.

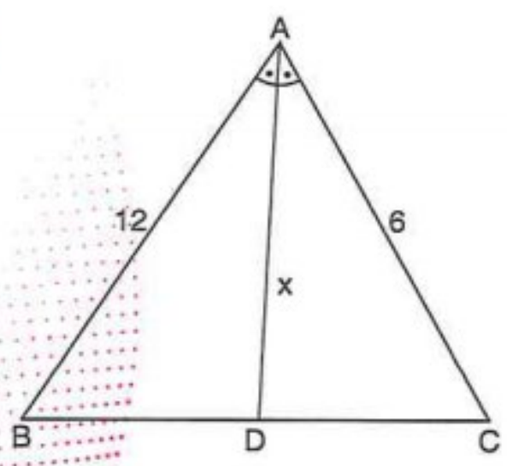


[BD] , [CE] açıortay *(bisector)*
$|DC| = 5$ br
$|ED| = 3$ br
$|AB| = 3|AD|$

⇒ $|CE| = ?$

A) $\sqrt{3}$ B) $2\sqrt{3}$ C) $3\sqrt{3}$ D) $4\sqrt{3}$ E) 6

12.



[AD] açıortay *(bisector)*
$|AB| = 12$ br
$|AC| = 6$ br
$|BC| = 9$ br

⇒ $|AD| = ?$

A) $3\sqrt{3}$ B) $3\sqrt{6}$ C) $6\sqrt{3}$ D) $6\sqrt{6}$ E) 12

1. B	2. E	3. D	4. B	5. B	6. D
7. A	8. B	9. C	10. B	11. D	12. B

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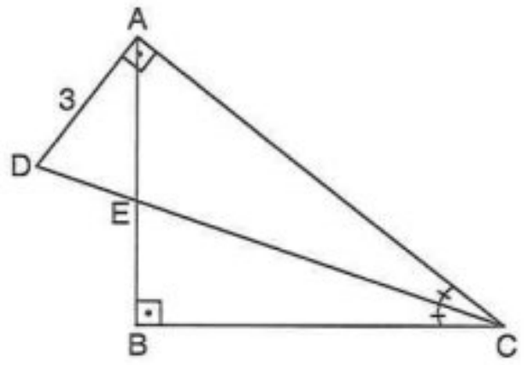
الممسوحة ضوئيا بـ CamScanner

1.

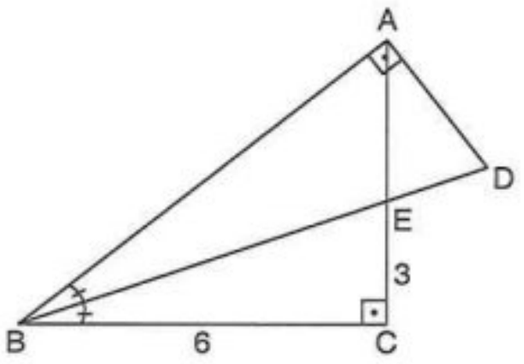


$[AB] \perp [BC]$
$[AD] \perp [AC]$
$m(\widehat{BCD}) = m(\widehat{DCA})$
$|AD| = 3$ br

$\Rightarrow |\mathbf{AE}| = ?$

A) 3 B) 4 C) 6 D) 9 E) 12

2.

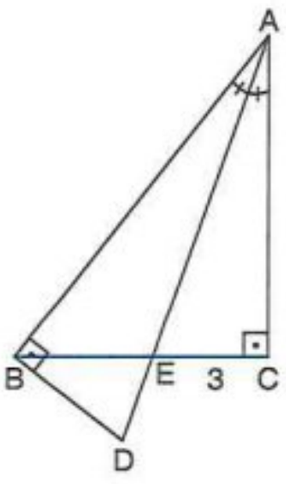


$[AC] \perp [BC]$
$[AB] \perp [AD]$
$m(\widehat{ABD}) = m(\widehat{DBC})$
$|EC| = 3$ br
$|BC| = 6$ br

$\Rightarrow |\mathbf{BD}| = ?$

A) $2\sqrt{5}$ B) $3\sqrt{5}$ C) $5\sqrt{5}$ D) $7\sqrt{5}$ E) $10\sqrt{5}$

3.

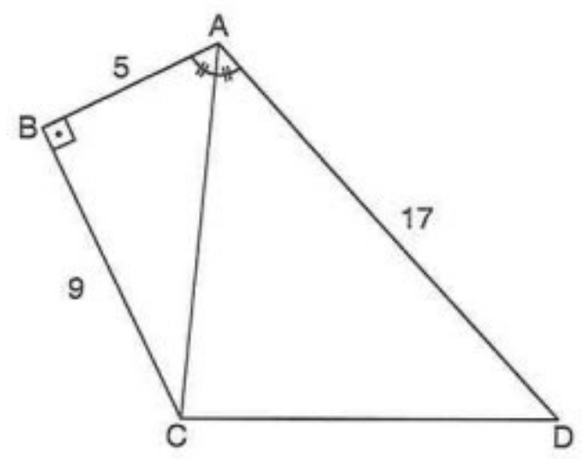


$[AC] \perp [BC]$
$[AB] \perp [BD]$
$m(\widehat{BAD}) = m(\widehat{DAC})$
$|EC| = 3$ br
$|BD| = 5$ br

$\Rightarrow |\mathbf{AC}| = ?$

A) 4 B) 6 C) 8 D) 10 E) 12

4.

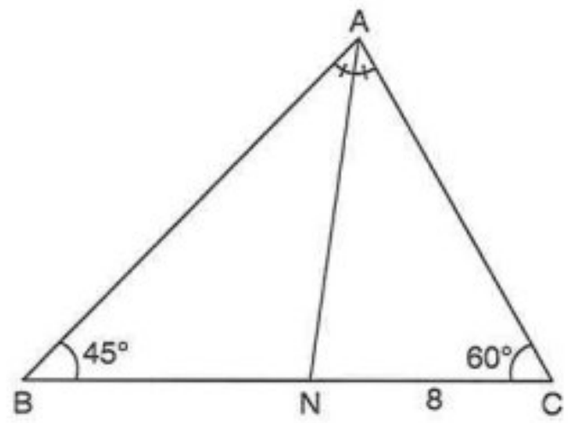


$[AB] \perp [BC]$
$m(\widehat{BAC}) = m(\widehat{CAD})$
$|AD| = 17$ br
$|BC| = 9$ br
$|AB| = 5$ br

$\Rightarrow |\mathbf{CD}| = ?$

A) 12 B) 13 C) 15 D) 16 E) 17

5.

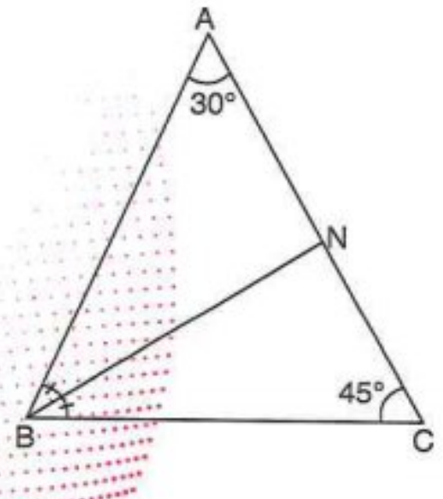


$m(\widehat{BAN}) = m(\widehat{NAC})$
$m(\widehat{ABC}) = 45°$
$m(\widehat{ACB}) = 60°$
$|NC| = 8$ br

$\Rightarrow |\mathbf{BN}| = ?$

A) $2\sqrt{6}$ B) $4\sqrt{3}$ C) $4\sqrt{6}$ D) $8\sqrt{3}$ E) $8\sqrt{6}$

6.



[BN] açıortay (*bisector*)
$m(\widehat{BAC}) = 30°$
$m(\widehat{BCA}) = 45°$
$|NC| = 6\sqrt{2}$ br

$\Rightarrow |\mathbf{AN}| = ?$

A) 6 B) 8 C) 10 D) 12 E) 18

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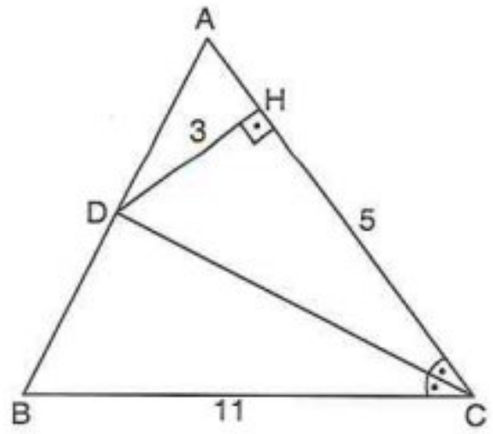
7.



[CD] açıortay *(bisector)*
[DH] ⊥ [AC]
|DH| = 3 br
|HC| = 5 br
|BC| = 11 br

⇒ **|BD| = ?**

A) $3\sqrt{2}$ B) 5 C) $3\sqrt{3}$ D) $3\sqrt{5}$ E) 7

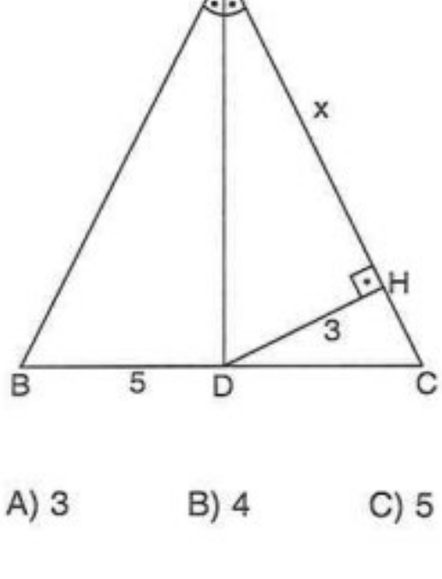
8.

[DH] ⊥ [AC]
$m(\widehat{BAD}) = m(\widehat{DAC})$
|BD| = 5 br
|DH| = 3 br
|AB| = 10 br

⇒ **|AH| = x = ?**

A) 3 B) 4 C) 5 D) 6 E) 7

9.

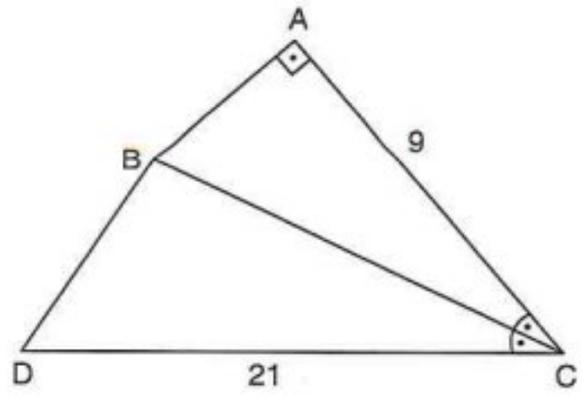


[AB] ⊥ [BD]
$m(\widehat{BAD}) = m(\widehat{CAD})$
$|AB| = 2\sqrt{3}$ br
|BD| = 1 br
|CD| = 7 br

⇒ **|AC| = ?**

A) $3\sqrt{3}$ B) $4\sqrt{3}$ C) $5\sqrt{3}$ D) $6\sqrt{3}$ E) $7\sqrt{3}$

10.

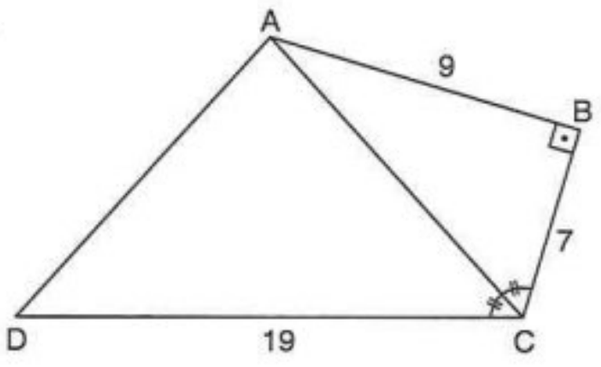


[AB] ⊥ [AC]
$m(\widehat{ACB}) = m(\widehat{BCD})$
|AB| = 5 br
|AC| = 9 br
|DC| = 21 br

⇒ **|BD| = ?**

A) 13 B) 14 C) 15 D) 16 E) 17

11.



[AB] ⊥ [BC]
$m(\widehat{BCA}) = m(\widehat{ACD})$
|BC| = 7 br
|AB| = 9 br
|DC| = 19 br

⇒ **|AD| = ?**

A) 13 B) 15 C) 16 D) 17 E) 18

12.

[AB] ⊥ [BC]
[ED] ⊥ [AC]
$m(\widehat{BAE}) = m(\widehat{EAC})$
$m(\widehat{ACE}) = m(\widehat{ECB})$
|AD| = 6 br
|DC| = 4 br

⇒ **|ED| = ?**

A) 2 B) 3 C) 4 D) 5 E) 6

1. A	2. C	3. B	4. C	5. C	6. D
7. D	8. D	9. D	10. A	11. B	12. A

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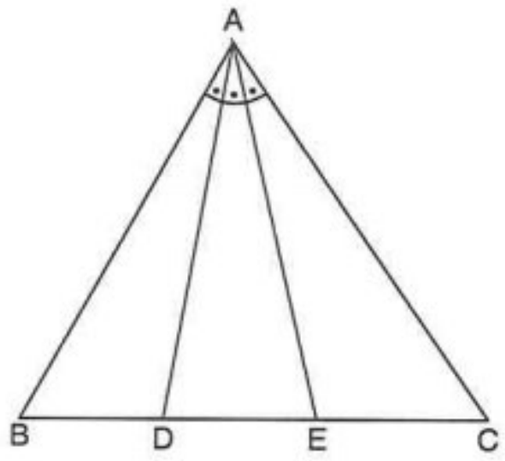
الممسوحة ضوئيا بـ CamScanner

1.

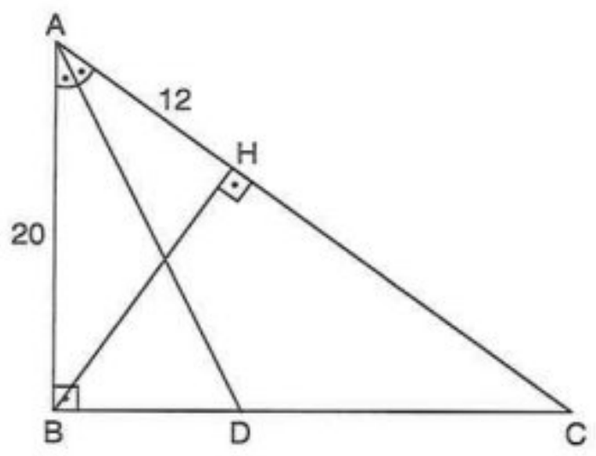


$m(\widehat{BAD}) = m(\widehat{DAE}) = m(\widehat{EAC})$
$|DE| = |EC| = 2|BD|$

$\Rightarrow \dfrac{|AC|}{|AB|} = ?$

A) $\frac{3\sqrt{6}}{2}$ B) $\frac{3\sqrt{2}}{2}$ C) $\frac{2\sqrt{2}}{3}$ D) $\frac{2\sqrt{3}}{3}$ E) $\frac{2\sqrt{6}}{3}$

2.

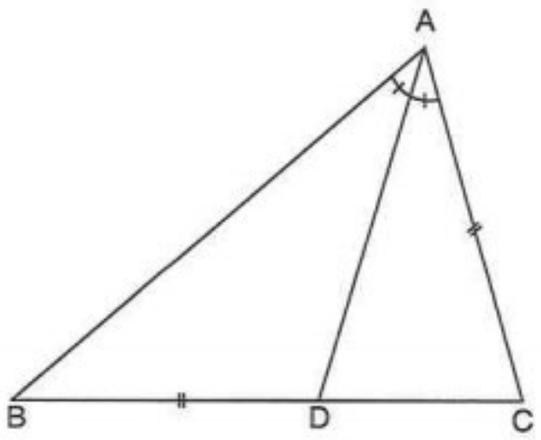


$[AB] \perp [BC]$
$[BH] \perp [AC]$
$m(\widehat{BAD}) = m(\widehat{DAC})$
$|AH| = 12$ br
$|AB| = 20$ br

$\Rightarrow |BD| = ?$

A) 5 B) 8 C) 10 D) 12 E) 15

3.

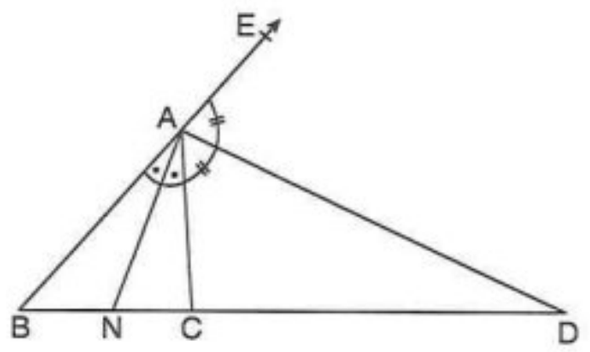


[AD] açıortay *(bisector)*
$|AC| = |BD|$
$|BC| = 21$ br
$|AB| + |AC| = 28$ br

$\Rightarrow |AB| = ?$

A) 8 B) 9 C) 10 D) 12 E) 16

4.

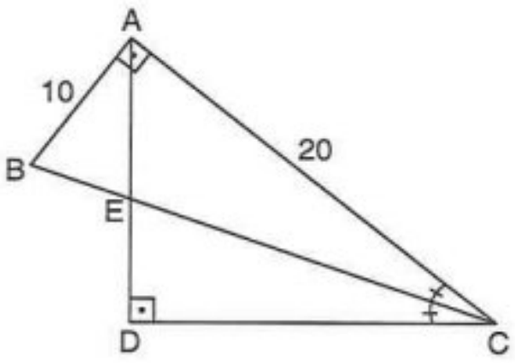


$m(\widehat{BAN}) = m(\widehat{NAC})$
$m(\widehat{CAD}) = m(\widehat{DAE})$
$|AN| = |AD|$
$|BN| = 4$ br
$|NC| = 3$ br

$\Rightarrow |AD| = ?$

A) $6\sqrt{3}$ B) $6\sqrt{6}$ C) 12 D) $12\sqrt{2}$ E) $12\sqrt{3}$

5.

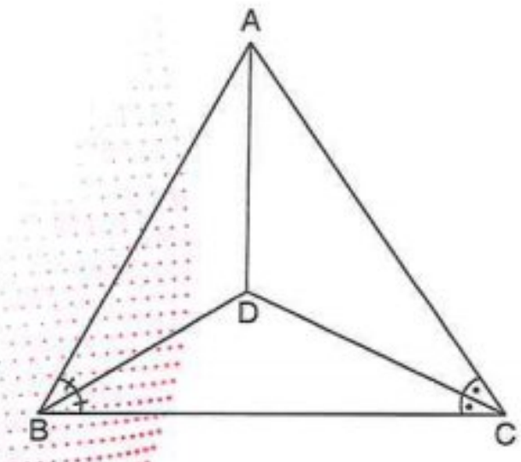


$[AB] \perp [AC]$
$[AD] \perp [DC]$
$m(\widehat{ACB}) = m(\widehat{BCD})$
$|AB| = 10$ br
$|AC| = 20$ br

$\Rightarrow |ED| = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

6.



[BD] , [CD] açıortay *(bisector)*
$|AB| = |BC| = 6$ br
$|AC| = 4$ br

$\Rightarrow |AD| = ?$

A) $\sqrt{2}$ B) $\sqrt{3}$ C) 2 D) $\sqrt{5}$ E) $\sqrt{6}$

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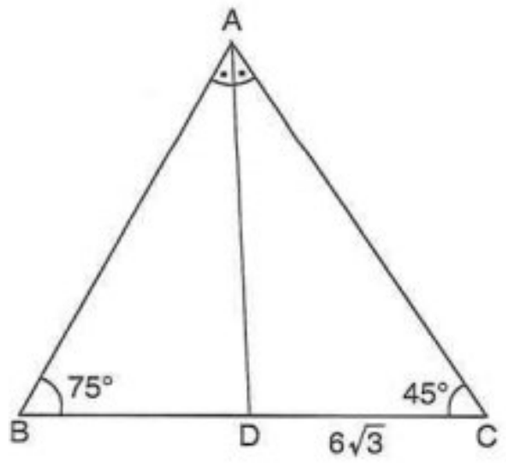
CamScanner الممسوحة ضوئيا بـ

7.

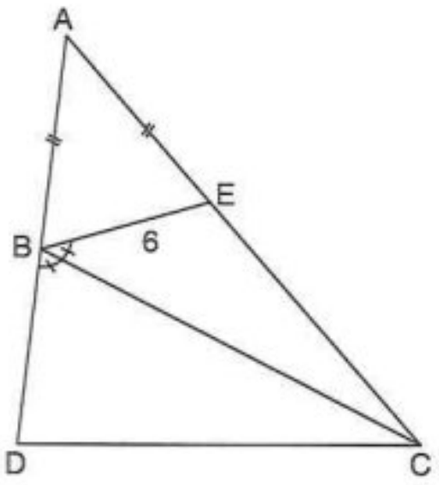


$m(A\widehat{B}C) = 75°$
$m(A\widehat{C}B) = 45°$
$|DC| = 6\sqrt{3}$ br

⇒ $|AD| = ?$

A) $6\sqrt{2}$ B) $6\sqrt{6}$ C) $3\sqrt{3}$ D) $3\sqrt{2}$ E) 3

8.

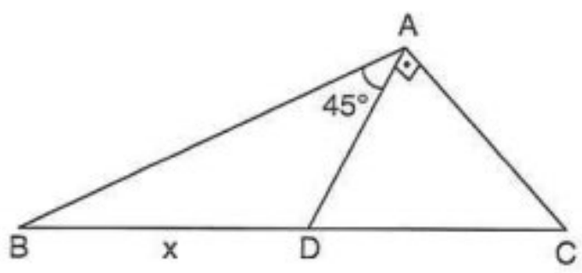


[BC] açıortay *(bisector)*
$|AB| = |AE| = 8$ br
$|BE| = 6$ br

⇒ $|EC| = ?$

A) 12 B) 16 C) 18 D) 20 E) 24

9.

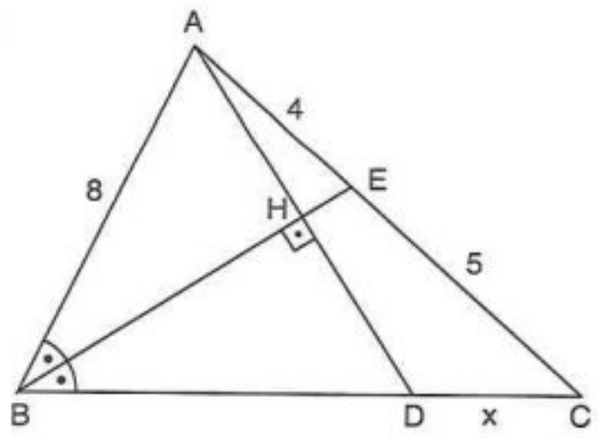


$[AD] \perp [AC]$
$m(B\widehat{A}D) = 45°$
$|AC| = 2|AD| = 4$ br

⇒ $|BD| = x = ?$

A) $\sqrt{5}$ B) $2\sqrt{5}$ C) $3\sqrt{5}$ D) $4\sqrt{5}$ E) $5\sqrt{5}$

10.

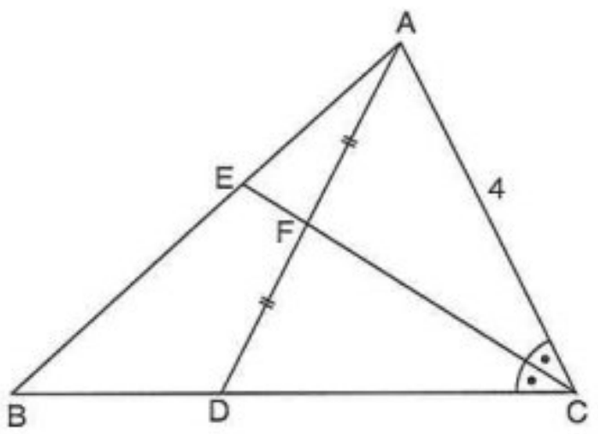


$[BE] \perp [AD]$
$m(A\widehat{B}E) = m(E\widehat{B}C)$
$|AE| = 4$ br
$|EC| = 5$ br
$|AB| = 8$ br

⇒ $|DC| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

11.

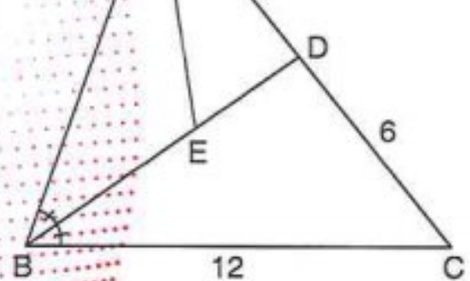


$m(A\widehat{C}E) = m(E\widehat{C}B)$
$|AF| = |FD|$
$|AC| = 2|AE| = 2|BD| = 4$ br

⇒ $|EB| = ?$

A) 1 B) 2 C) 3 D) 4 E)

12.



[BD] , [AE] açıortay*(bisector)*
$|BC| = 12$ br
$|AD| = 9$ br
$|DC| = 6$ br

⇒ $|ED| = x = ?$

A) $6\sqrt{2}$ B) $4\sqrt{3}$ C) $3\sqrt{3}$ D) $3\sqrt{2}$ E) $2\sqrt{2}$

1. E	2. C	3. E	4. D	5. E	6. E
7. B	8. E	9. B	10. B	11. C	12. D

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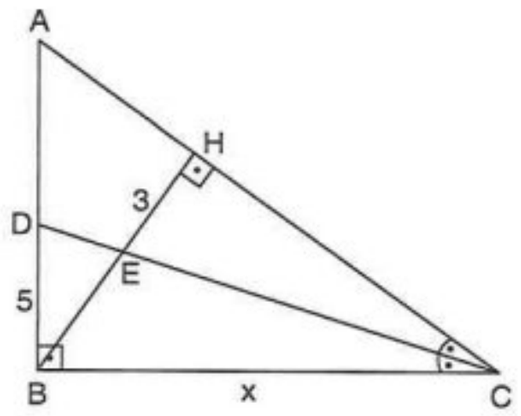
الممسوحة ضوئيا بـ CamScanner

1.

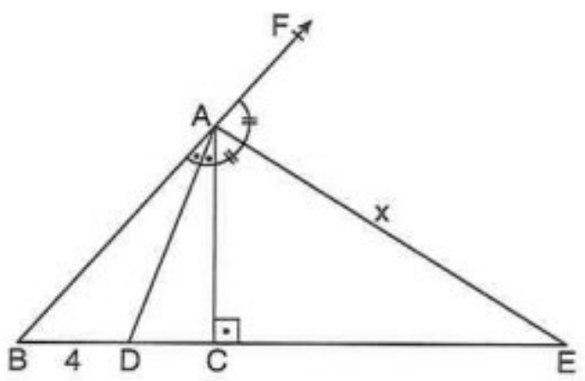


$[AB] \perp [BC]$
$[BH] \perp [AC]$
$m(\widehat{BCD}) = m(\widehat{DCA})$
$|EH| = 3$ br
$|BD| = 5$ br

$\Rightarrow |\mathbf{BC}| = \mathbf{x} = ?$

A) 5 B) 6 C) 8 D) 9 E) 10

2.

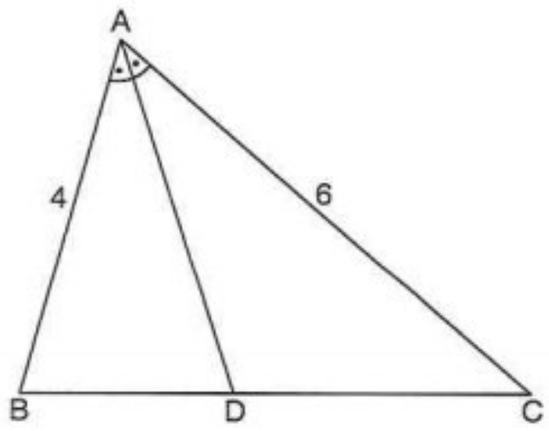


$[AC] \perp [BE]$
$m(\widehat{BAD}) = m(\widehat{DAC})$
$m(\widehat{CAE}) = m(\widehat{EAF})$
$|BD| = 4$ br
$|DC| = 2$ br

$\Rightarrow |\mathbf{AE}| = \mathbf{x} = ?$

A) $2\sqrt{3}$ B) $4\sqrt{2}$ C) $4\sqrt{3}$ D) 6 E) $6\sqrt{2}$

3.

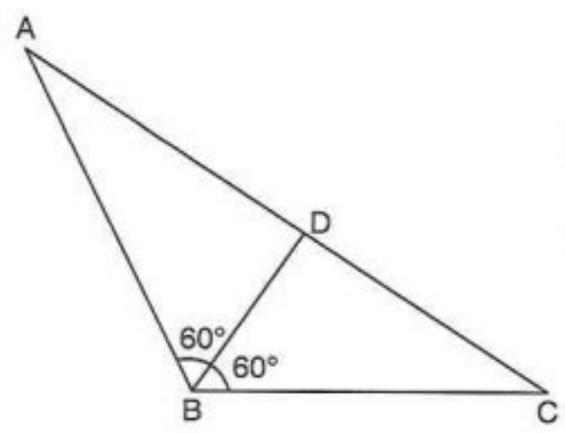


[AD] açıortay *(bisector)*
$m(\widehat{BAC}) = 2m(\widehat{ABC})$
$|AC| = 6$ br
$|AB| = 4$ br

$\Rightarrow |\mathbf{BC}| = ?$

A) $2\sqrt{2}$ B) $2\sqrt{3}$ C) $2\sqrt{5}$ D) $4\sqrt{3}$ E) $2\sqrt{15}$

4.

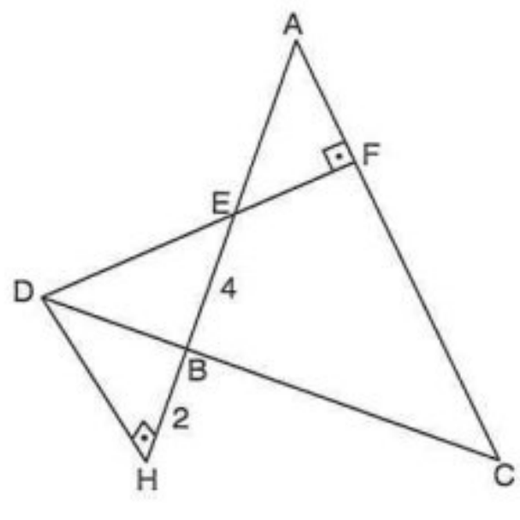


$m(\widehat{ABD}) = m(\widehat{DBC}) = 60°$
$4|BD| = 3|AD|$
$|AC| + |BC| = 28$ br

$\Rightarrow |\mathbf{BC}| = ?$

A) 9 B) 12 C) 16 D) 18 E) 21

5.

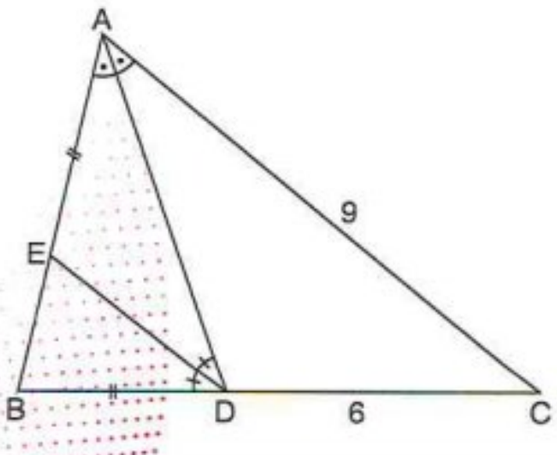


$[DF] \perp [AC]$
$[DH] \perp [AH]$
$|AB| = |AC|$
$|HB| = 2$ br
$|BE| = 4$ br

$\Rightarrow |\mathbf{DE}| = ?$

A) $2\sqrt{3}$ B) $2\sqrt{5}$ C) $4\sqrt{2}$ D) $4\sqrt{3}$ E) $4\sqrt{5}$

6.



[AD] , [DE] açıortay *(bisector)*

$|AE| = |BD|$
$|DC| = 6$ br
$|AC| = 9$ br

$\Rightarrow \dfrac{|\mathbf{AD}|}{|\mathbf{AE}|} = ?$

A) $\frac{1}{2}$ B) 1 C) $\frac{3}{2}$ D) $\frac{5}{3}$ E) 2

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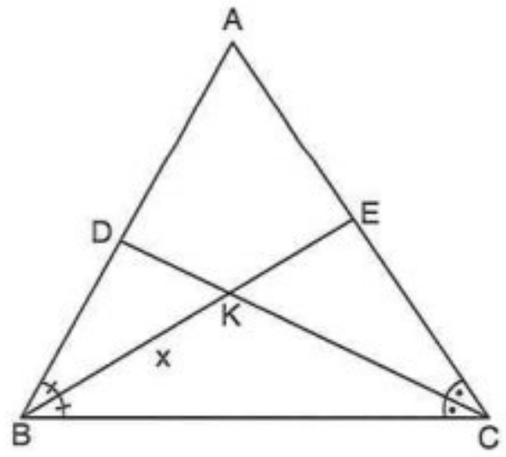
7.



[BE] , [CD] açıortay *(bisector)*

$|AC| = 12$ br

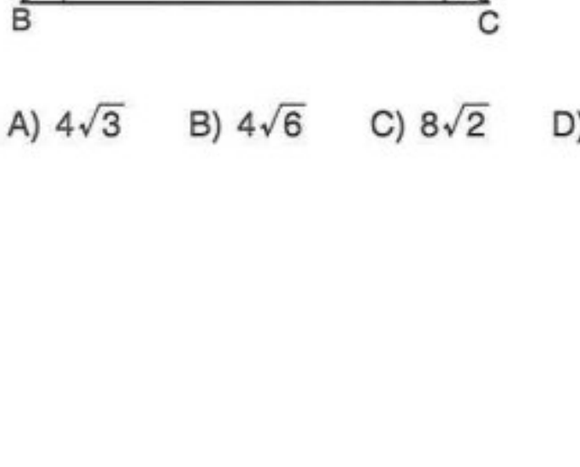
$|AB| = 14$ br

$|BC| = 16$ br

⇒ $|BK| = x = ?$

A) $4\sqrt{3}$ B) $4\sqrt{6}$ C) $8\sqrt{2}$ D) $8\sqrt{3}$ E) $7\sqrt{5}$

8.



[AD] , [DE] açıortay *(bisector)*

$[DE] \perp [AC]$

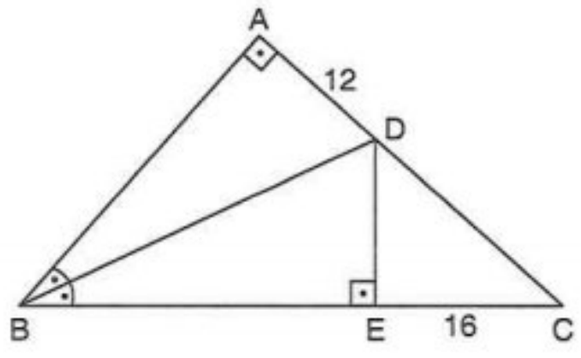
$2|BD| = 3|AD|$

$|EC| = 5$ br

⇒ $|DC| = ?$

A) $2\sqrt{5}$ B) $3\sqrt{3}$ C) $4\sqrt{2}$ D) $5\sqrt{2}$ E) $2\sqrt{15}$

9.



$[AB] \perp [AC]$

$[DE] \perp [BC]$

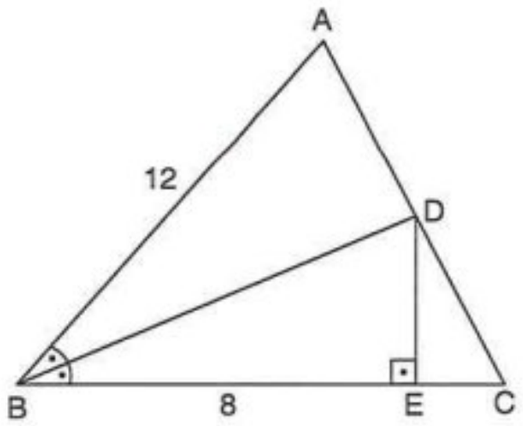
$|AD| = 12$ br

$|EC| = 16$ br

⇒ $Ç(ABC) = ?$

A) 86 B) 88 C) 90 D) 94 E) 96

10.



$[DE] \perp [BC]$

$m(\widehat{ABD}) = m(\widehat{DBC})$

$|DE| = 3$ br

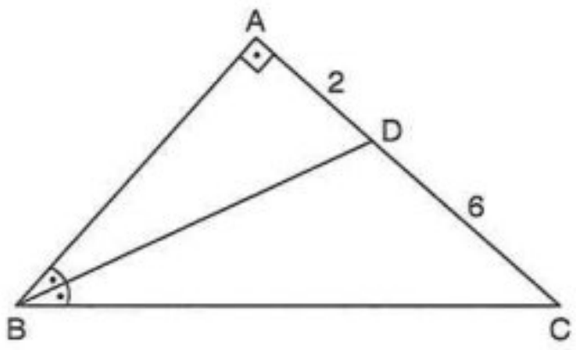
$|BE| = 8$ br

$|AB| = 12$ br

⇒ $|AD| = ?$

A) 4 B) $2\sqrt{5}$ C) 5 D) $3\sqrt{3}$ E) 6

11.



$[AB] \perp [AC]$

$m(\widehat{ABD}) = m(\widehat{DBC})$

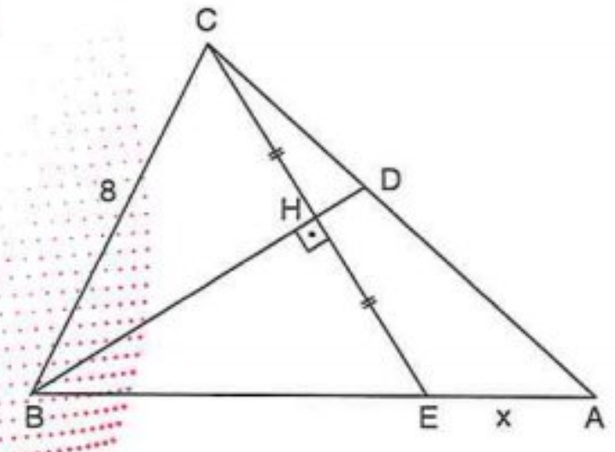
$|AD| = 2$ br

$|DC| = 6$ br

⇒ $|BD| = ?$

A) $2\sqrt{2}$ B) $2\sqrt{3}$ C) 4 D) $2\sqrt{5}$ E) $2\sqrt{6}$

12.



$[BD] \perp [CE]$

$|EH| = |HC|$

$5|DC| = 2|AC|$

$|BC| = 8$ br

⇒ $|AE| = x = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

1. E	2. C	3. E	4. B	5. D	6. E
7. B	8. E	9. E	10. C	11. B	12. C

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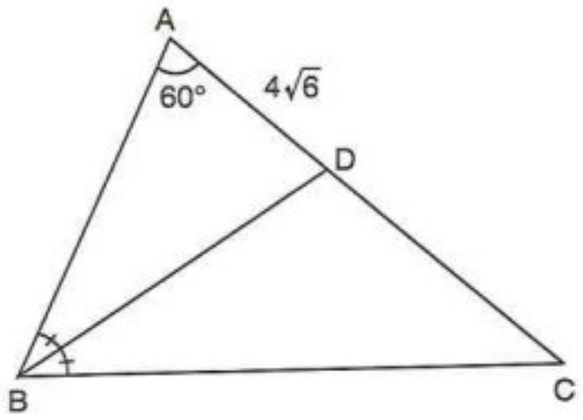
الممسوحة ضوئيا بـ CamScanner

1.

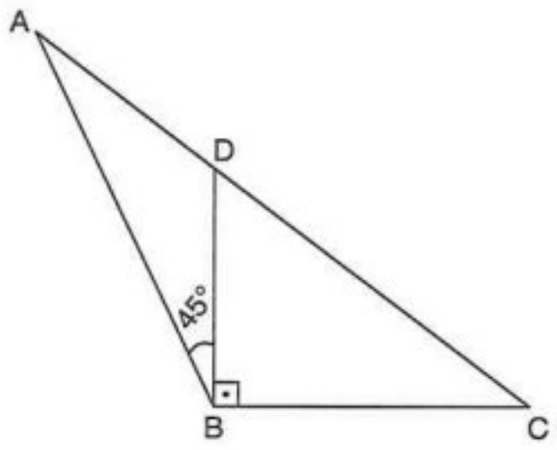


[BD] açıortay *(bisector)*
$m(\widehat{ACB}) = 45°$
$m(\widehat{BAC}) = 60°$
$|AD| = 4\sqrt{6}$ br

⇒ $|DC| = ?$

A) 2 B) $2\sqrt{2}$ C) 4 D) $4\sqrt{2}$ E) 12

2.

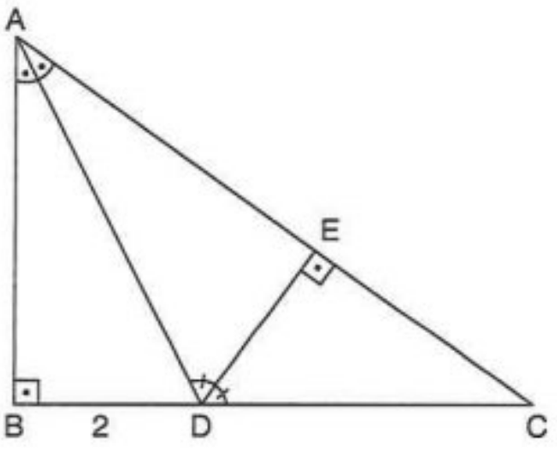


$[DB] \perp [BC]$
$m(\widehat{ABD}) = 45°$
$|BD| = 2$ br
$|BC| = 6$ br

⇒ $|AC| = ?$

A) $3\sqrt{10}$ B) $4\sqrt{10}$ C) $2\sqrt{5}$ D) $3\sqrt{5}$ E) 8

3.

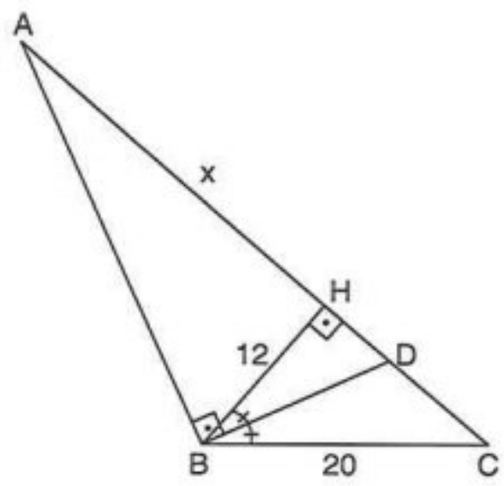


$[AB] \perp [BC]$
$[DE] \perp [AC]$
$m(\widehat{BAD}) = m(\widehat{DAC})$
$m(\widehat{ADE}) = m(\widehat{EDC})$
$|BD| = 2$ br

⇒ $|EC| = ?$

A) 2 B) $2\sqrt{3}$ C) 4 D) $4\sqrt{2}$ E) $4\sqrt{3}$

4.

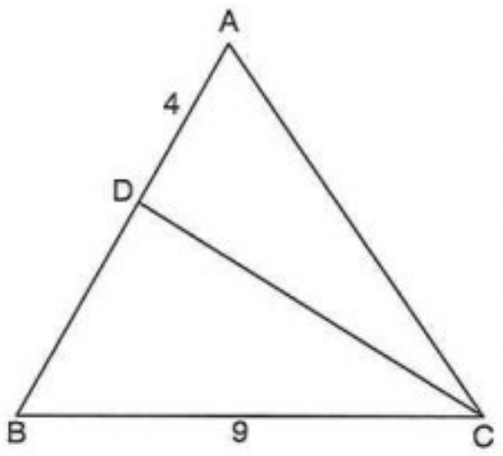


$[AB] \perp [BD]$
$[BH] \perp [AC]$
$|BC| = 20$ br
$|BH| = 12$ br

⇒ $|AH| = x = ?$

A) 16 B) 18 C) 20 D) 24 E) 30

5.

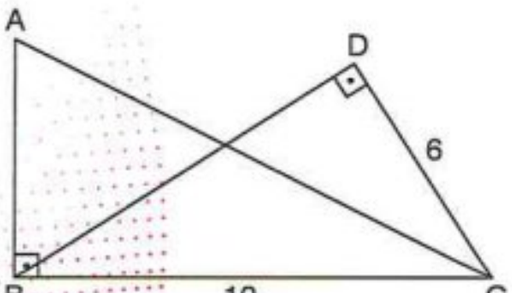


$m(\widehat{ABC}) = 2m(\widehat{BAC})$
$m(\widehat{ADC}) = m(\widehat{BDC}) + m(\widehat{BAC})$
$|AC| = |BD|$
$|BC| = 9$ br
$|AD| = 4$ br

⇒ $|BD| = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

6.



$[AB] \perp [BC]$
$[BD] \perp [DC]$
$m(\widehat{BCA}) = m(\widehat{ACD})$
$|DC| = 6$ br
$|BC| = 10$ br

⇒ $|AC| = ?$

A) $5\sqrt{5}$ B) $5\sqrt{6}$ C) $3\sqrt{10}$ D) $6\sqrt{5}$ E) $6\sqrt{6}$

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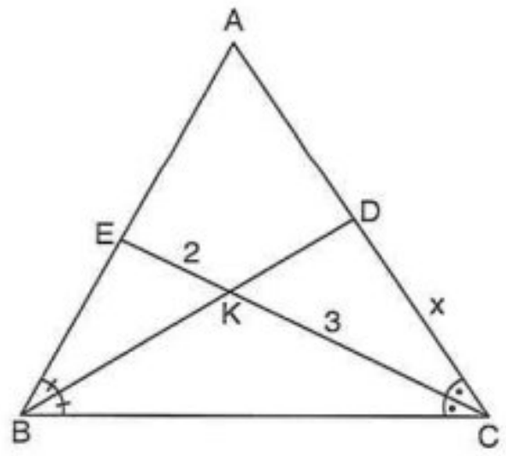
7.

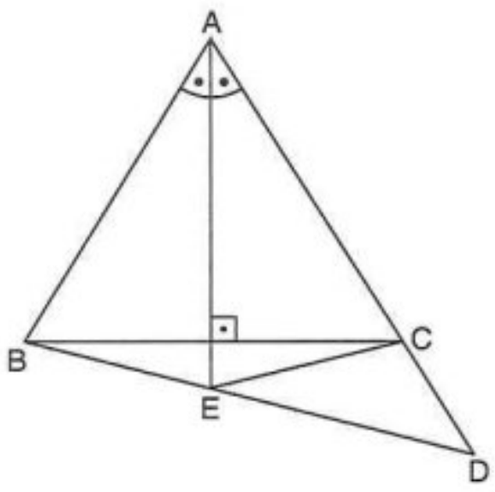


$m(\widehat{ABD}) = m(\widehat{DBC})$
$m(\widehat{ACE}) = m(\widehat{ECB})$
$|EB| = 4$ br
$|KC| = 3$ br
$|EK| = 2$ br

⇒ $|DC| = x = ?$

A) $\frac{5}{2}$ B) 3 C) $\frac{7}{2}$ D) 4 E) $\frac{9}{2}$

8.

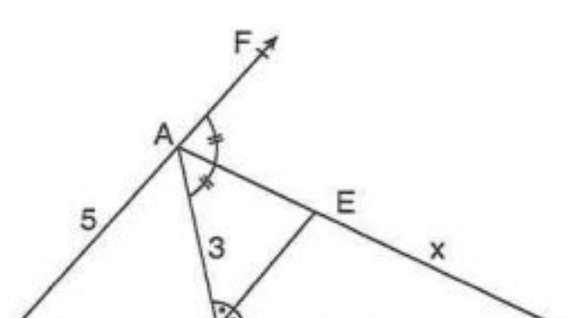


[AE] açıortay *(bisector)*
$[AE] \perp [BC]$
$|AB| = 15$
$|ED| = 9$
$|BE| = 5$

⇒ **Ç(ECD) = ?**

A) 24 B) 25 C) 26 D) 27 E) 28

9.

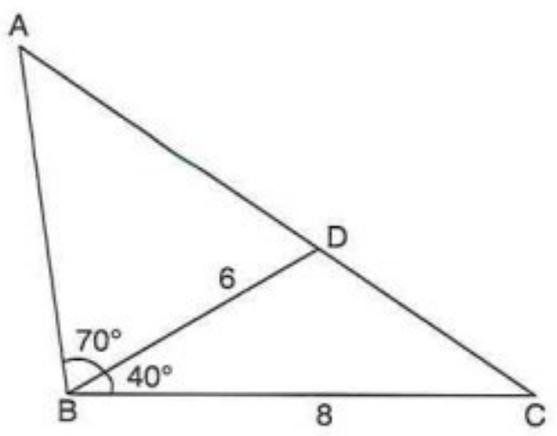


$m(\widehat{FAD}) = m(\widehat{DAC})$
$m(\widehat{ACE}) = m(\widehat{ECD})$
$|AB| = 5$ br
$|BC| = 4$ br
$|AC| = 3$ br

⇒ $|ED| = x = ?$

A) $\sqrt{2}$ B) $\sqrt{3}$ C) $\sqrt{5}$ D) $2\sqrt{3}$ E) $2\sqrt{5}$

10.

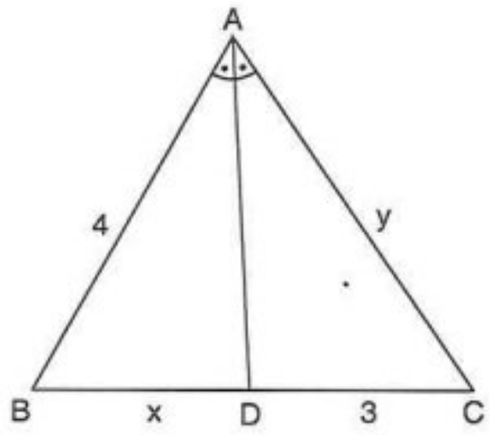


$m(\widehat{ABD}) = 70°$
$m(\widehat{DBC}) = 40°$
$|BD| = 6$ br
$|BC| = 8$ br

⇒ $\frac{|CD|}{|AD|} = ?$

A) $\frac{1}{3}$ B) $\frac{2}{3}$ C) $\frac{3}{4}$ D) $\frac{4}{3}$ E) 3

11.

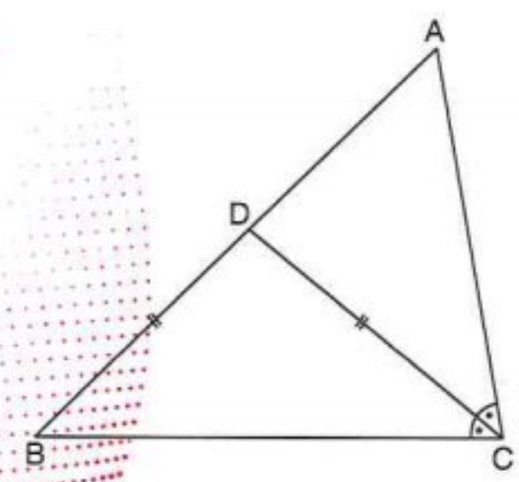


[AD] açıortay *(bisector)*
$|AB| = 4$ br
$|DC| = 3$ br
$|BD| = x$ br
$|AC| = y$ br
$x^2 + y^2 = 40$

⇒ $x + y = ?$

A) 6 B) 7 C) 8 D) 9 E) 10

12.



[CD] açıortay *(bisector)*
$|BD| = |DC|$
$|BC| = 6$ br
$|AC| = 4$ br

⇒ $|AB| = ?$

A) $2\sqrt{10}$ B) $3\sqrt{5}$ C) $3\sqrt{6}$ D) $2\sqrt{15}$ E) 8

1. E	2. A	3. E	4. D	5. E	6. A
7. B	8. C	9. E	10. A	11. C	12. A

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KENARORTAY MEDIAN

KONU KAVRAMA TESTİ
Thread Grip Test

ZİHİN HARİTASI
Mind Map

5 TEST
Tests

108 SORU
Questions

CANER eğitim kurumları YÖS

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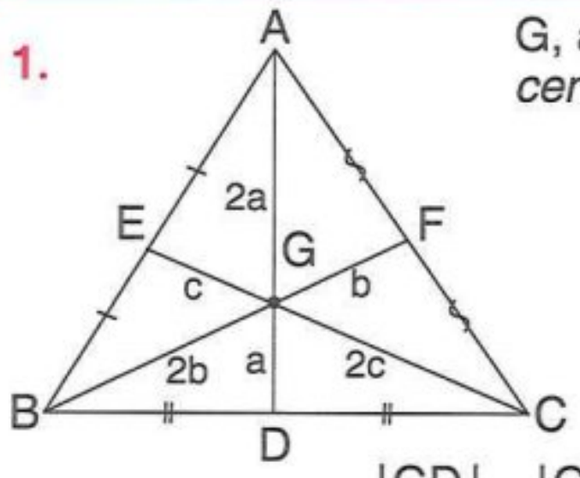
الممسوحة ضوئيا بـ CamScanner

KENARORTAY MEDIAN

CANER eğitim kurumları

1.

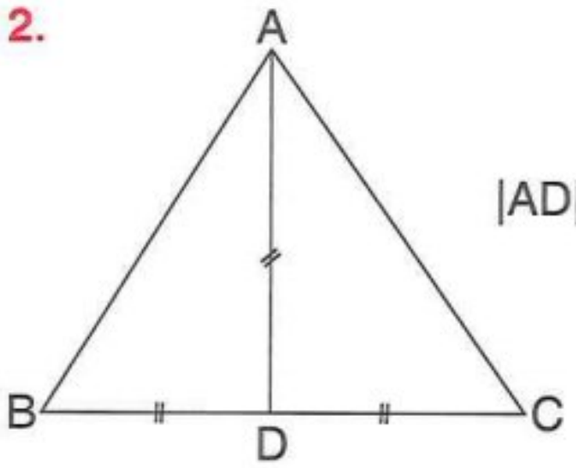


G, ağırlık merkezi
center of gravity

$|AD| = V_a$
$|BF| = V_b$
$|CE| = V_c$

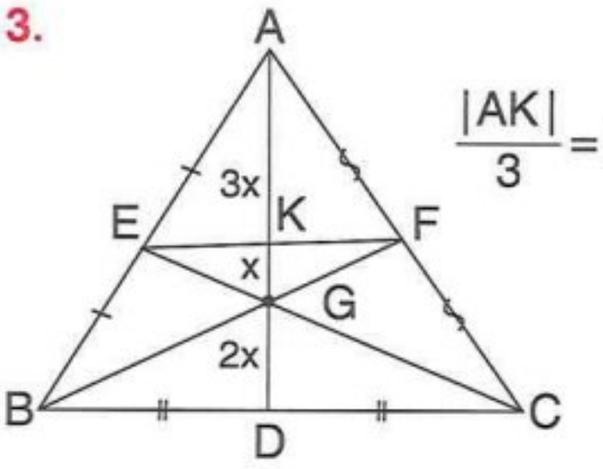
$$\frac{|GD|}{|AG|} = \frac{|GF|}{|BG|} = \frac{|GE|}{|CG|} = \frac{1}{2}$$

2.



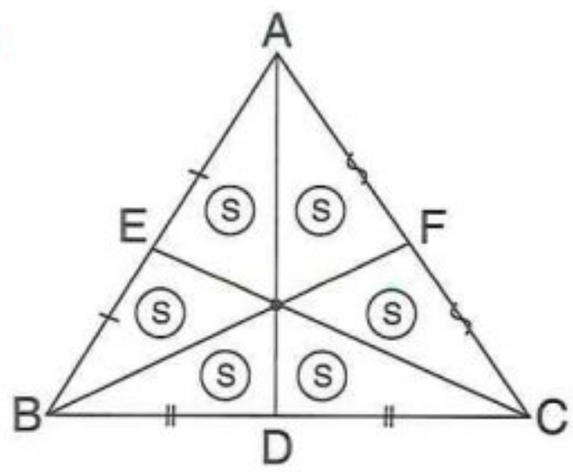
$|AD| = |BD| = |DC|$

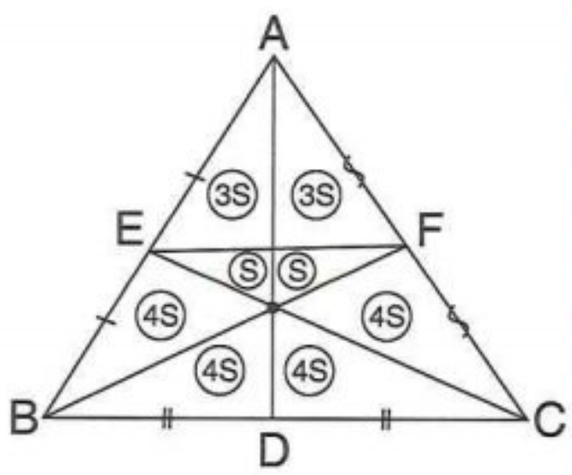
3.



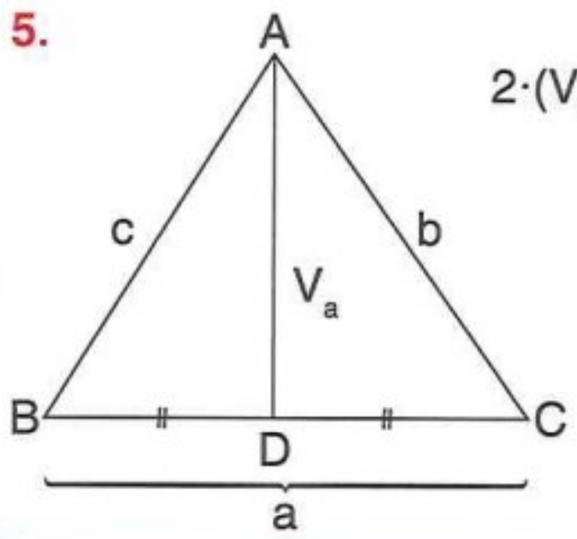
$$\frac{|AK|}{3} = |KG| = \frac{|GD|}{2}$$

4.



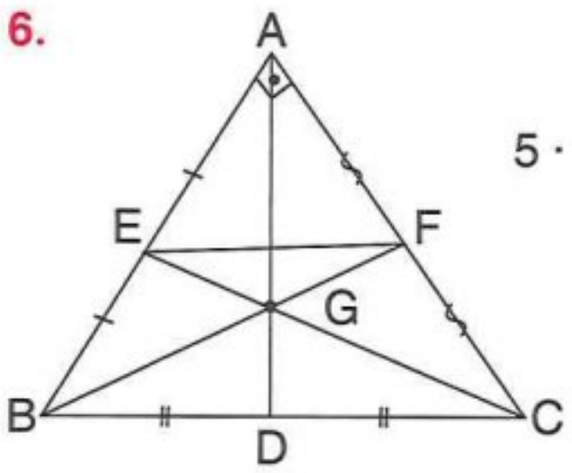


5.



$$2\cdot(V_a)^2 = b^2 + c^2 - \frac{a^2}{2}$$

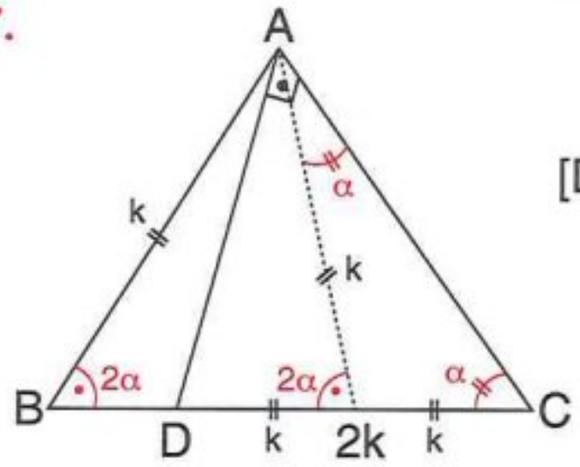
6.



$m(\widehat{A}) = 90°$

$5 \cdot V_a^2 = V_b^2 + V_c^2$

7.



$[DA] \perp [AC]$

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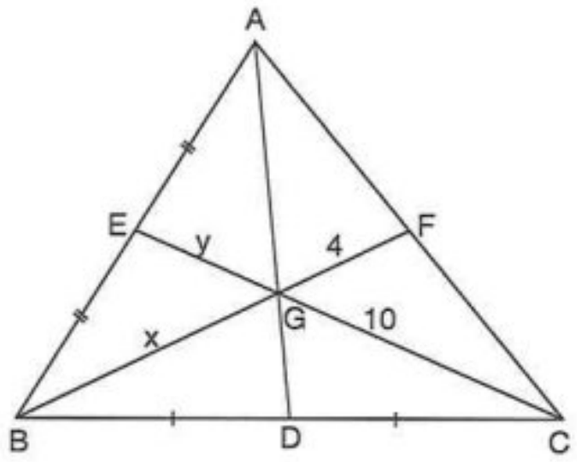
1.

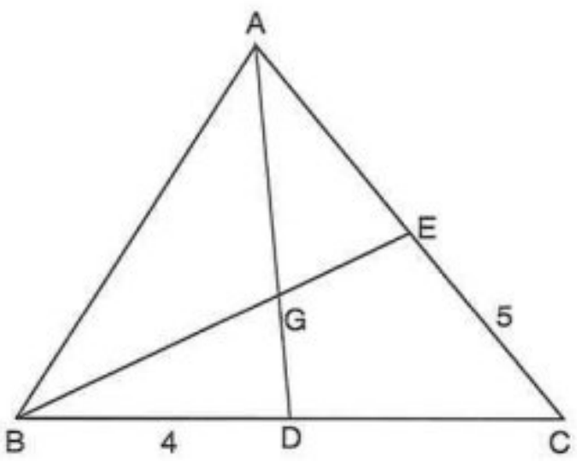


$|AE| = |EB|$
$|BD| = |DC|$
$|GF| = 4$ br
$|GC| = 10$ br
$|BG| = x$ br
$|GE| = y$ br

⇒ $x - y = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

2.

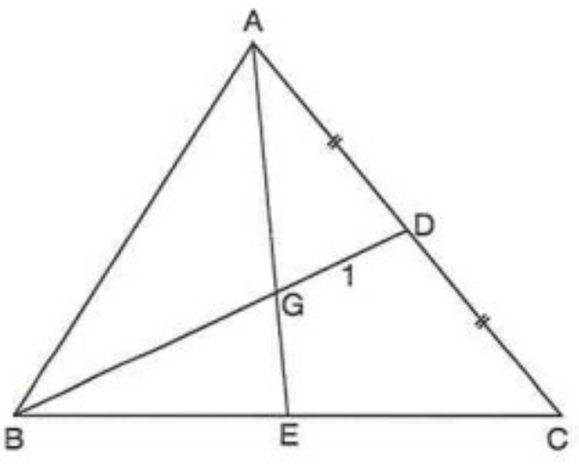


G, ağırlık merkezi
(center of gravity)
$|EC| = 5$ br
$|BD| = 4$ br

⇒ $|AE| - |DC| = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

3.

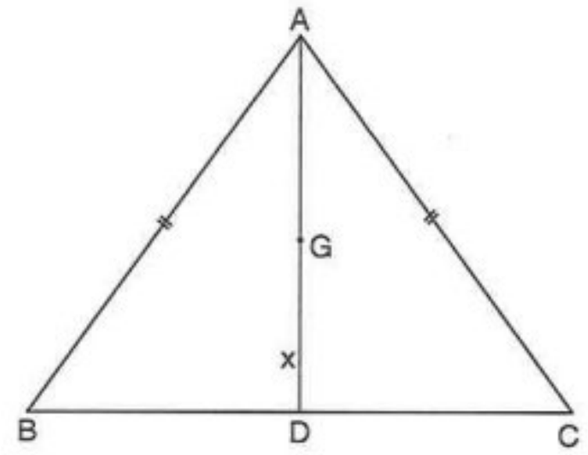


G, ağırlık merkezi
(center of gravity)
$|AB| = |BC|$
$|GD| = 1$br
$|AC| = 8$ br

⇒ $|AB| = ?$

A) 3 B) 4 C) 5 D) 6 E) 7

4.

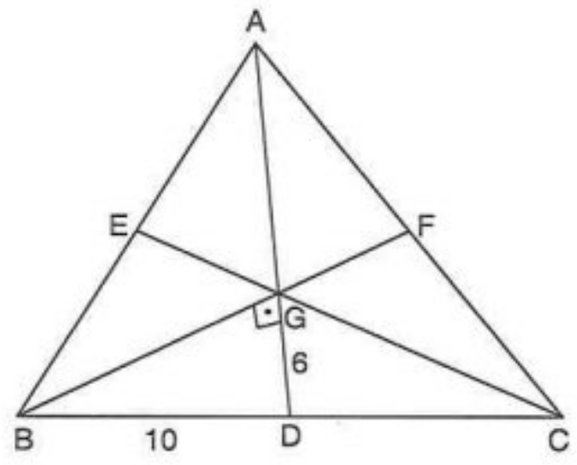


G, ağırlık merkezi
(center of gravity)
$|AB| = |AC| = 15$ br
$|BC| = 24$ br

⇒ $|GD| = x = ?$

A) 3 B) 4 C) 5 D) 6 E) 9

5.

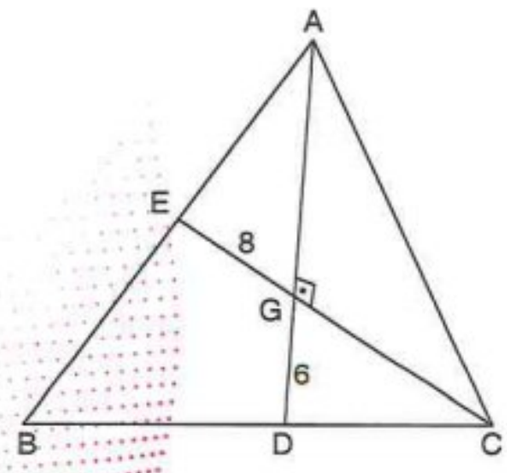


G, ağırlık merkezi
(center of gravity)
$[AD] \perp [BF]$
$|GD| = 6$ br
$|BD| = 10$ br

⇒ $|GF| = ?$

A) 4 B) 5 C) 6 D) 7 E) 8

6.



G, ağırlık merkezi
(center of gravity)
$|GD| = 6$ br
$|EG| = 8$ br

⇒ $|AC| = ?$

A) 10 B) 12 C) 16 D) 18 E) 20

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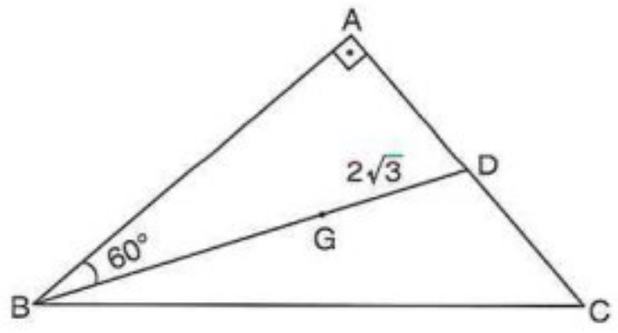
7.

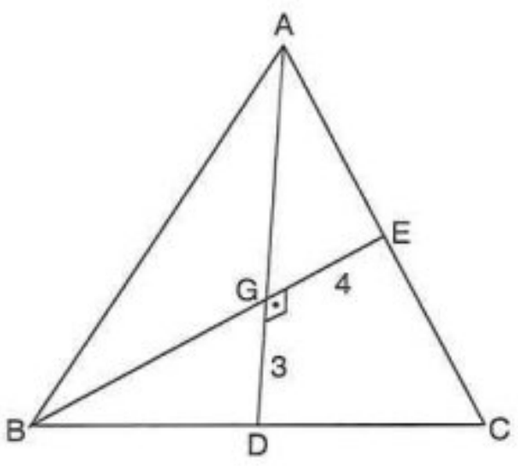


G, ağırlık merkezi
(center of gravity)
$[AB] \perp [AC]$
$m(\widehat{ABD}) = 60°$
$|GD| = 2\sqrt{3}$ br

⇒ $|DC| = ?$

A) 3 B) 5 C) 7 D) 9 E) 12

8.

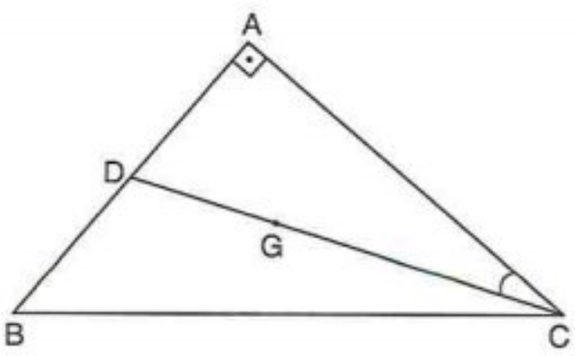


G, ağırlık merkezi
(center of gravity)
$[AD] \perp [BE]$
$|GE| = 4$ br
$|GD| = 3$ br

⇒ $|AB| = ?$

A) 8 B) 9 C) 10 D) 12 E) 15

9.

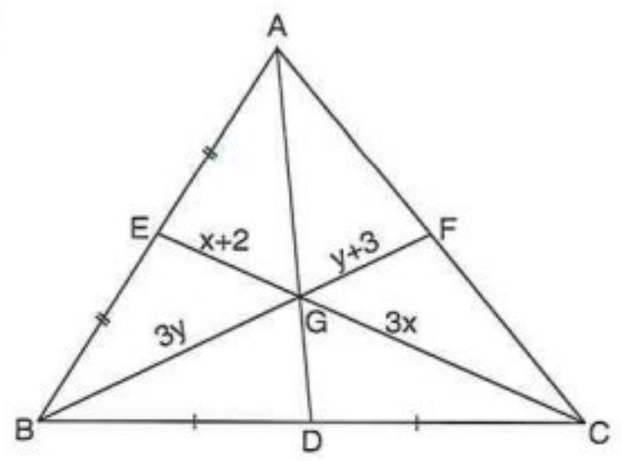


G, ağırlık merkezi
(center of gravity)
$5|BD| = 2|BC|$
$|AC| = 30$ br

⇒ $|AD| = ?$

A) 12 B) 16 C) 18 D) 20 E) 24

10.

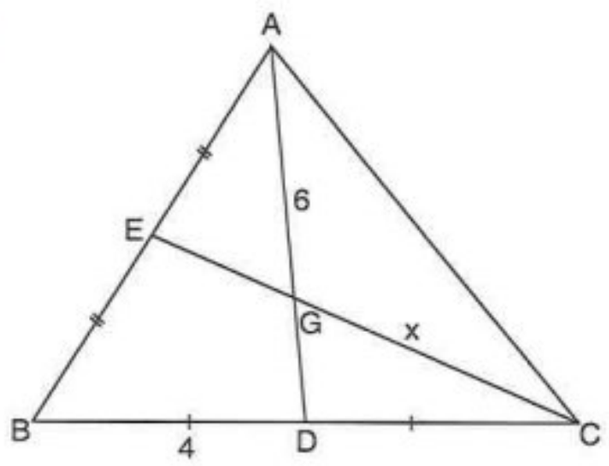


$|AE| = |EB|$
$|BD| = |DC|$
$|EG| = (x+2)$ br
$|GC| = 3x$ br
$|GF| = (y+3)$ br
$|BG| = 3y$ br

⇒ $x + y = ?$

A) 6 B) 8 C) 10 D) 12 E) 14

11.

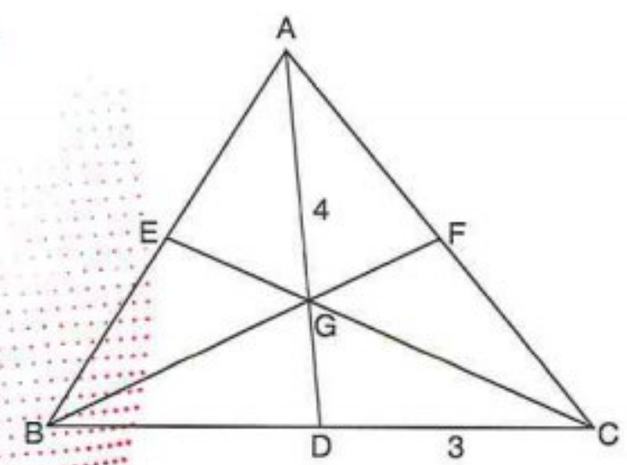


$|AE| = |EB|$
$|BD| = |DC| = 4$ br
$|AG| = 6$ br
$|AB| = |AC|$

⇒ $|GC| = x = ?$

A) 5 B) 8 C) 10 D) 12 E) 16

12.



G, ağırlık merkezi
(center of gravity)
$|AB| = |AC|$
$|AG| = 4$ br
$|DC| = 3$ br

⇒ $|AC| = ?$

A) $2\sqrt{3}$ B) $2\sqrt{5}$ C) $3\sqrt{3}$ D) $3\sqrt{5}$ E) $6\sqrt{2}$

1. B	2. A	3. C	4. A	5. A	6. E
7. D	8. C	9. D	10. C	11. A	12. D

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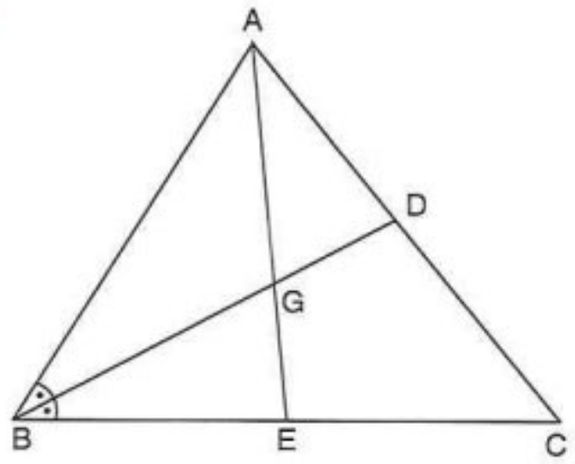
13.

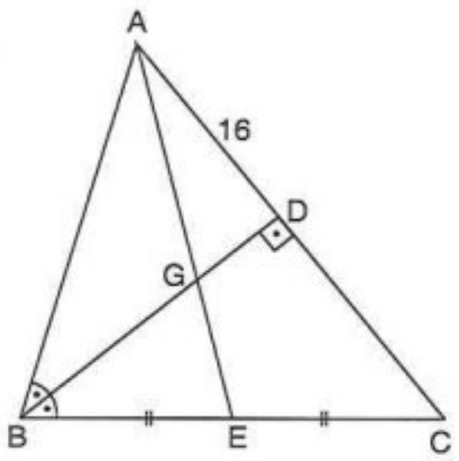


G, ağırlık merkezi *(center of gravity)*
[BD] açıortay *(bisector)*
$|BG| = 10$ br
$|CD| = 12$ br

⇒ $|AG| = ?$

A) 5 B) 6 C) 8 D) 10 E) 13

14.

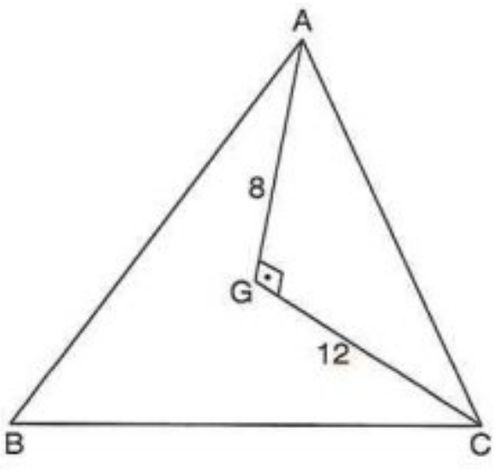


$[BD] \perp [AC]$
$m(\widehat{ABD}) = m(\widehat{DBC})$
$|BE| = |EC|$
$|AD| = 16$ br
$|GD| = 4$ br

⇒ $|EC| = ?$

A) 6 B) 8 C) 9 D) 10 E) 12

15.

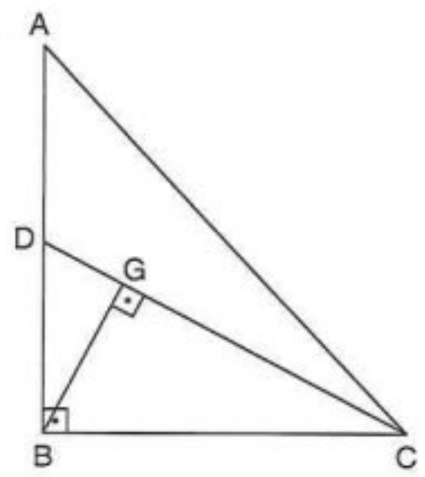


G, ağırlık merkezi *(center of gravity)*
$[AG] \perp [GC]$
$|AG| = 8$ br
$|GC| = 12$ br

⇒ $|AB| = ?$

A) 10 B) 12 C) 14 D) 20 E) 24

16.

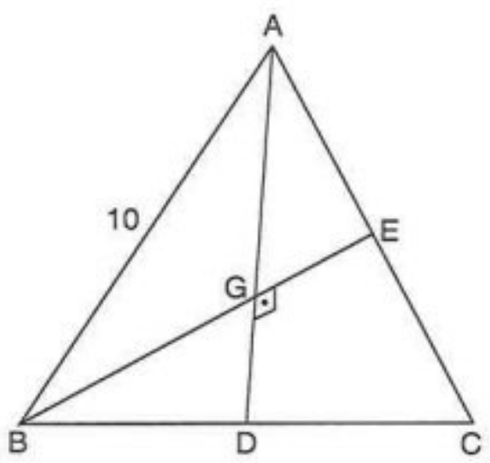


G, ağırlık merkezi *(center of gravity)*
$[AB] \perp [BC]$
$[BG] \perp [DC]$
$|DG| = 2$ br

⇒ $|BG| = ?$

A) $\sqrt{2}$ B) $2\sqrt{2}$ C) $\sqrt{6}$ D) $4\sqrt{2}$ E) $6\sqrt{2}$

17.

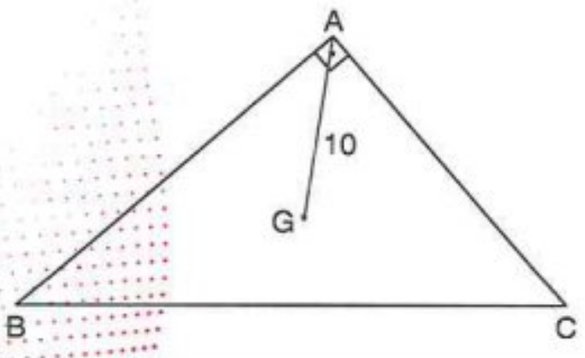


G, ağırlık merkezi *(center of gravity)*
$[AD] \perp [BE]$
$|AG| = 6$ br
$|AB| = 10$ br

⇒ $|AE| = ?$

A) $2\sqrt{3}$ B) $3\sqrt{2}$ C) $2\sqrt{13}$ D) $4\sqrt{3}$ E) $5\sqrt{2}$

18.



G, ağırlık merkezi *(center of gravity)*
$[AB] \perp [AC]$
$|AG| = 10$ br

⇒ $|BC| = ?$

A) 10 B) 15 C) 20 D) 25 E) 30

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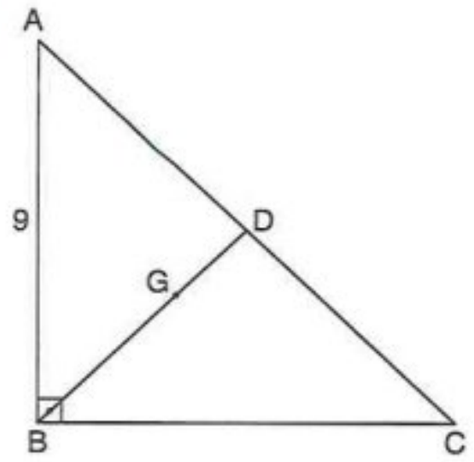
19.



G, ağırlık merkezi *(center of gravity)*

$[AB] \perp [BC]$

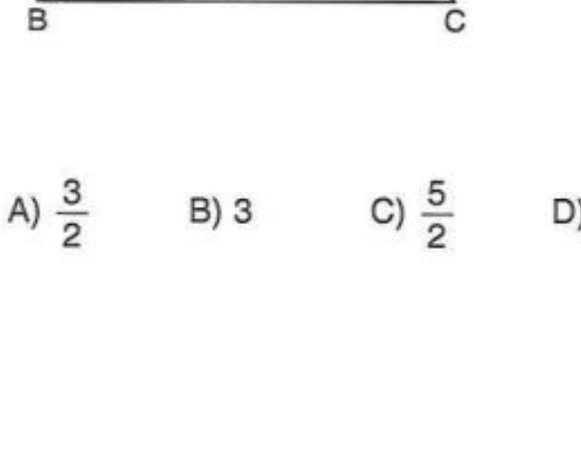
$|AB| = 9$ br

$|BC| = 12$ br

⇒ $|GD| = ?$

A) $\frac{3}{2}$ B) 3 C) $\frac{5}{2}$ D) 4 E) $\frac{7}{2}$

20.



G, ağırlık merkezi *(center of gravity)*

$[AD] \perp [BG]$

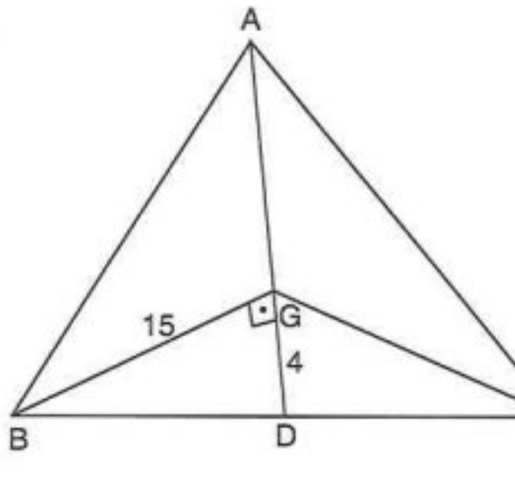
$|GD| = 4$ br

$|BG| = 15$ br

⇒ $|CG| = ?$

A) 8 B) 12 C) 15 D) 17 E) 19

21.



G, ağırlık merkezi *(center of gravity)*

$[AB] \perp [BC]$

$[GH] \perp [AC]$

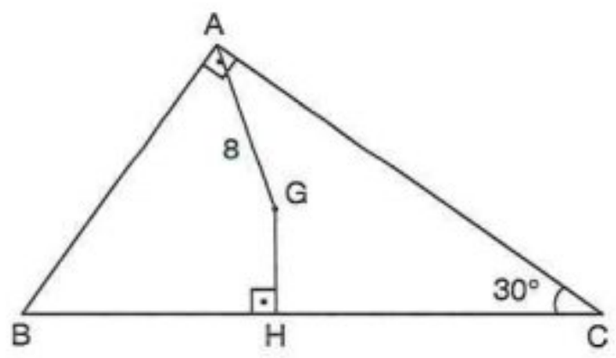
$m(\widehat{BCA}) = 15°$

$|GH| = 2$ br

⇒ $|AC| = ?$

A) 16 B) 18 C) 20 D) 22 E) 24

22.



G, ağırlık merkezi *(center of gravity)*

$[AB] \perp [AC]$

$[GH] \perp [BC]$

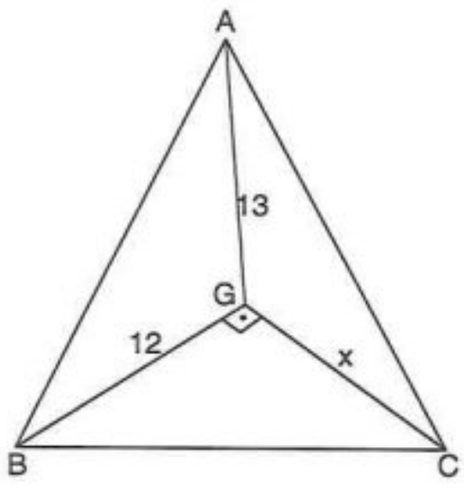
$m(\widehat{BCA}) = 30°$

$|AG| = 8$ br

⇒ $|BH| = ?$

A) 6 B) 8 C) 10 D) 12 E) 16

23.



G, ağırlık merkezi *(center of gravity)*

$[BG] \perp [GC]$

$|AG| = 13$ br

$|BG| = 12$ br

⇒ $|GC| = x = ?$

A) 5 B) 6 C) 7 D) 8 E) 9

24.

G, ağırlık merkezi *(center of gravity)*

$[AB] \perp [AC]$

$[GH] \perp [BC]$

$m(\widehat{ACB}) = 15°$

$|GH| = 4$ br

⇒ $|BC| = ?$

A) 16 B) 24 C) 36 D) 42 E) 48

13. E	14. D	15. D	16. B	17. C	18. E
19. C	20. D	21. E	22. C	23. A	24. E

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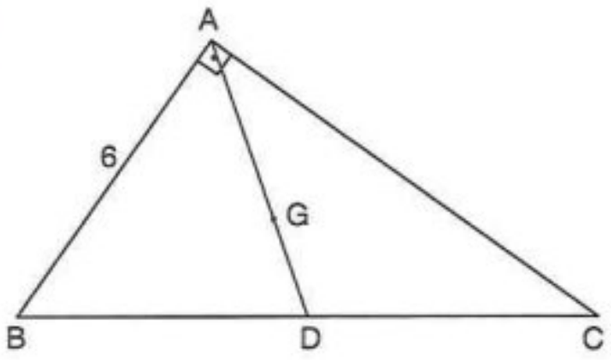
25.



G, ağırlık merkezi *(center of gravity)*

$[AB] \perp [AC]$

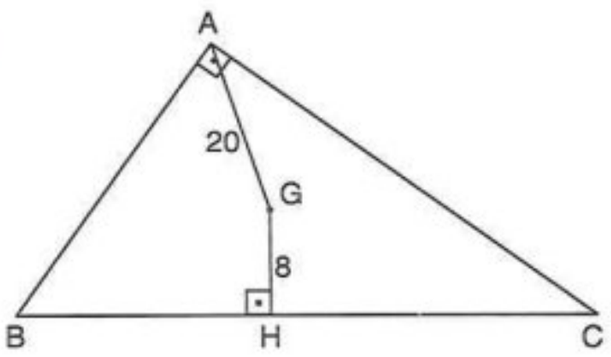
$m(\widehat{ACB}) = 30°$

$|AB| = 6$ br

⇒ $|AG| = ?$

A) 2 B) 3 C) 4 D) 6 E) 8

26.



G, ağırlık merkezi *(center of gravity)*

$[AB] \perp [AC]$

$[GH] \perp [BC]$

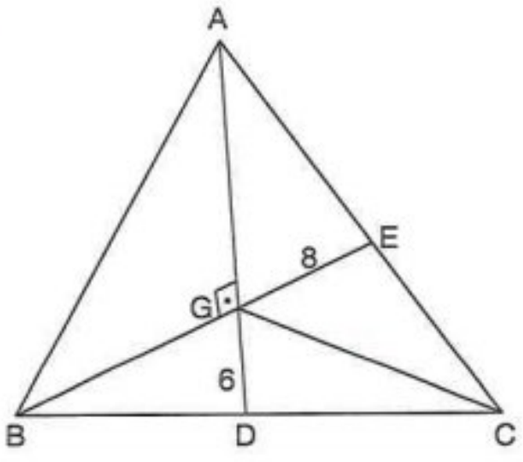
$|AG| = 20$ br

$|GH| = 8$ br

⇒ $|BH| = ?$

A) 12 B) 16 C) 20 D) 24 E) 30

27.



G, ağırlık merkezi *(center of gravity)*

$[AD] \perp [BE]$

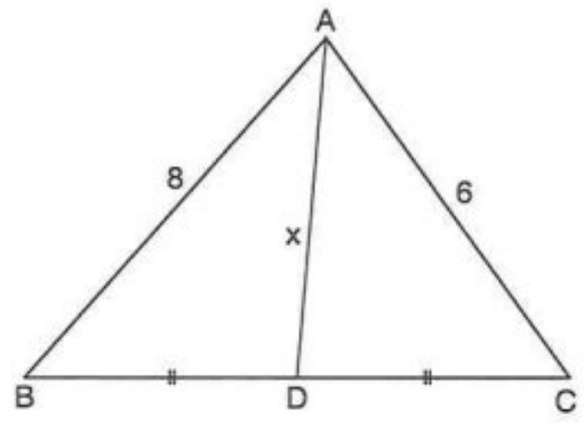
$|GD| = 6$ br

$|GE| = 8$ br

⇒ $|GC| = ?$

A) 8 B) 10 C) 16 D) 17 E) 20

28.



$|BD| = |DC|$

$|AC| = 6$ br

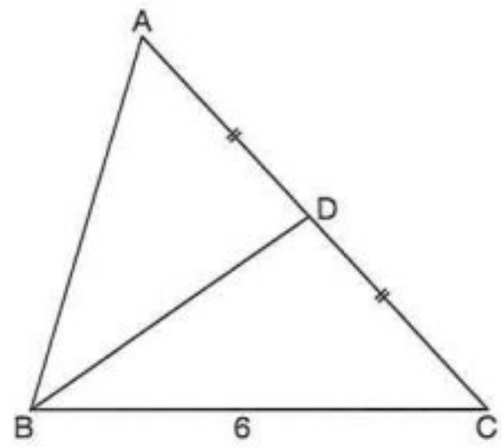
$|AB| = 8$ br

$|BC| = 12$ br

⇒ $|AD| = x = ?$

A) 3 B) $\sqrt{14}$ C) $2\sqrt{7}$ D) $4\sqrt{2}$ E) 8

29.



$|AD| = |DC|$

$|AB| = 8$ br

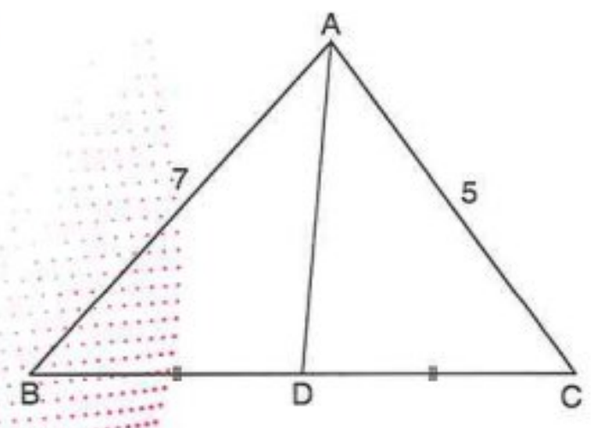
$|BC| = 6$ br

$|AC| = 4$ br

⇒ $|BD| = ?$

A) $\sqrt{46}$ B) $2\sqrt{13}$ C) $2\sqrt{17}$ D) $2\sqrt{21}$ E) $2\sqrt{23}$

30.



$|BD| = |DC|$

$|AC| = 5$

$|AB| = 7$ br

$|AD| = 2\sqrt{3}$ br

⇒ $|BC| = ?$

A) 6 B) 8 C) 10 D) 12 E) 14

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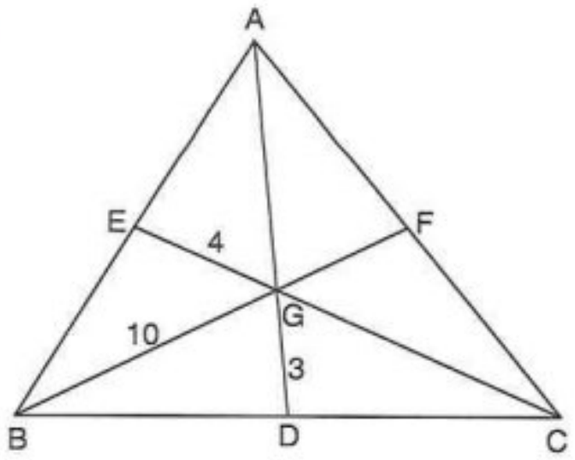
31.



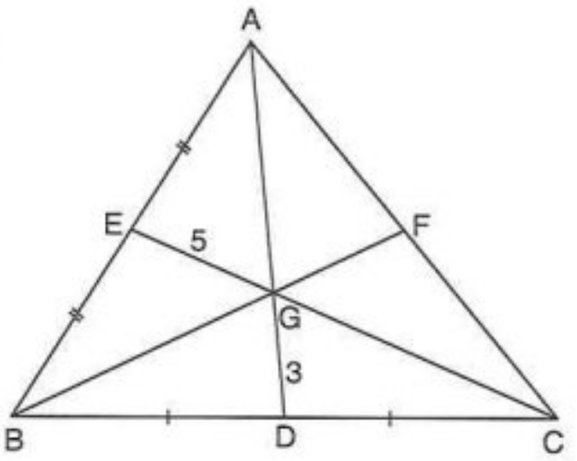
G, ağırlık merkezi
(center of gravity)

$|GD| = 3$ br
$|EG| = 4$ br
$|BG| = 10$ br

⇒ $|AC| = ?$

A) 6 B) 8 C) 10 D) $5\sqrt{5}$ E) 12

32.

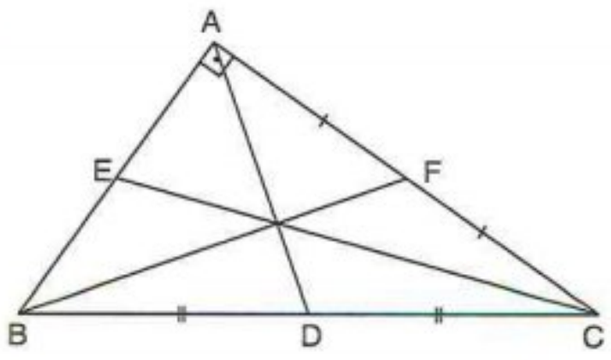


$|AE| = |EB|$
$|BD| = |DC|$
$|GD| = 3$ br
$|EG| = 5$ br
$|AC| = 12$ br

⇒ $|GF| = ?$

A) $2\sqrt{2}$ B) $3\sqrt{3}$ C) $2\sqrt{13}$ D) $4\sqrt{3}$ E) $4\sqrt{2}$

33.

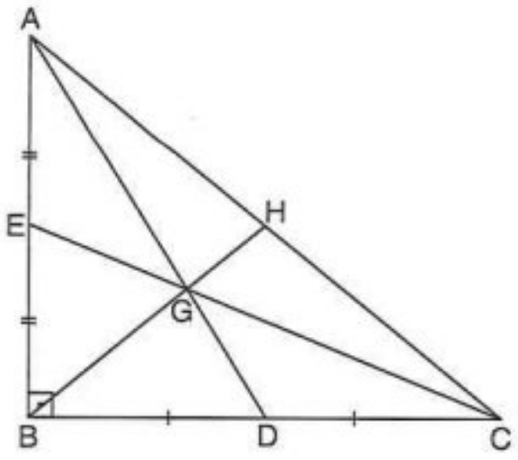


$|BD| = |DC|$
$|AF| = |FC|$
$|BF| = 5$ br
$|CE| = 10$ br

⇒ $|AD| = ?$

A) 3 B) 4 C) 5 D) 8 E) 10

34.



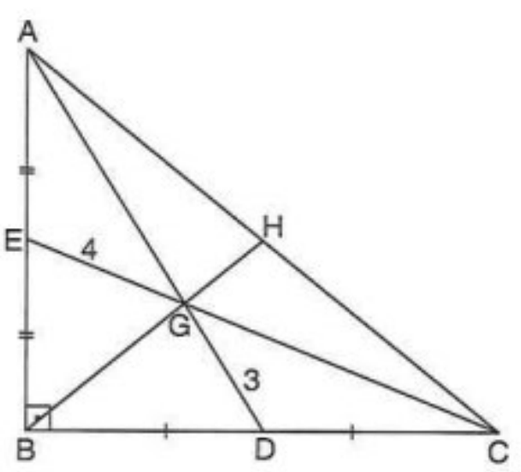
G, ağırlık merkezi
(center of gravity)

$[AB] \perp [BC]$
$|AD| = 6$ br
$|CE| = 8$ br

⇒ $|BH| = ?$

A) $\sqrt{5}$ B) $2\sqrt{5}$ C) $3\sqrt{2}$ D) $4\sqrt{2}$ E) $3\sqrt{5}$

35

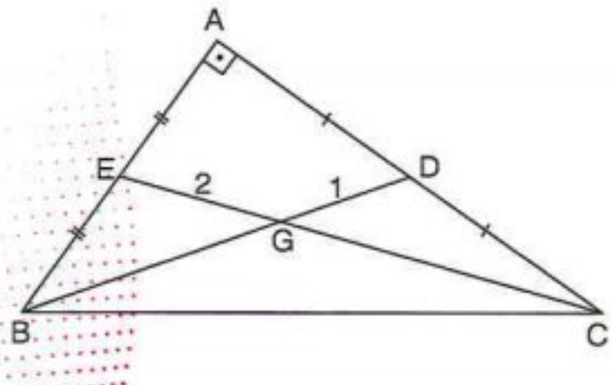


$[AB] \perp [BC]$
$|AE| = |EB|$
$|BD| = |DC|$
$|EG| = 4$ br
$|DG| = 3$ br

⇒ $|AC| = ?$

A) $2\sqrt{5}$ B) $4\sqrt{5}$ C) $6\sqrt{5}$ D) $8\sqrt{5}$ E) $12\sqrt{5}$

36.



$[AB] \perp [AC]$
$|AE| = |EB|$
$|AD| = |DC|$
$|GD| = 1$ br
$|EG| = 2$ br

⇒ $|BC| = ?$

A) 3 B) 4 C) 6 D) 9 E) 12

25. C	26. D	27. E	28. B	29. A	30. C
31. C	32. E	33. C	34. B	35. C	36. C

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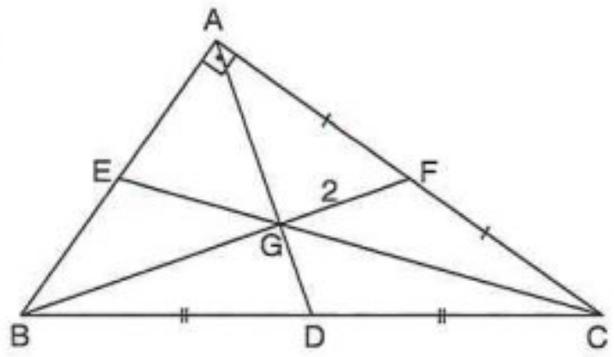
37.

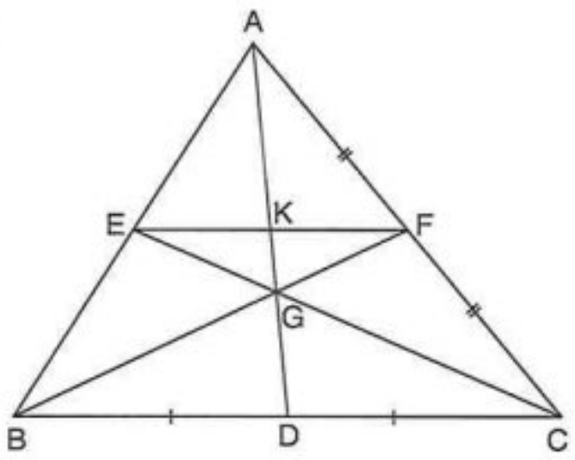


$[AB] \perp [AC]$
$|AF| = |FC|$
$|BD| = |DC|$
$|GF| = 2\,br$
$|BC| = 10\,br$

$\Rightarrow |\mathbf{EC}| = ?$

A) 6 B) $\sqrt{57}$ C) 8 D) $\sqrt{89}$ E) 12

38.

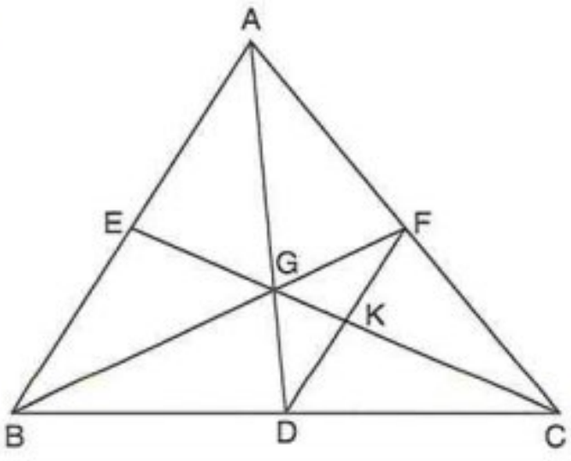


$|AF| = |FC|$
$|BD| = |DC|$
$|KG| = 2\,br$

$\Rightarrow |\mathbf{AD}| = ?$

A) 8 B) 10 C) 12 D) 14 E) 16

39.

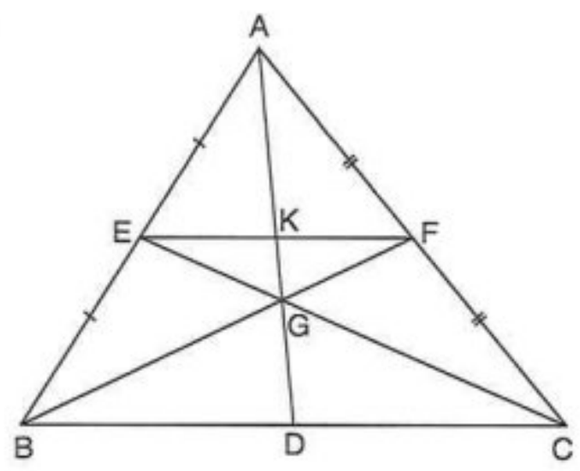


G, ağırlık merkezi
(center of gravity)
$|KC| = 12\,br$

$\Rightarrow |\mathbf{EG}| = ?$

A) 3 B) 4 C) 6 D) 8 E) 9

40.

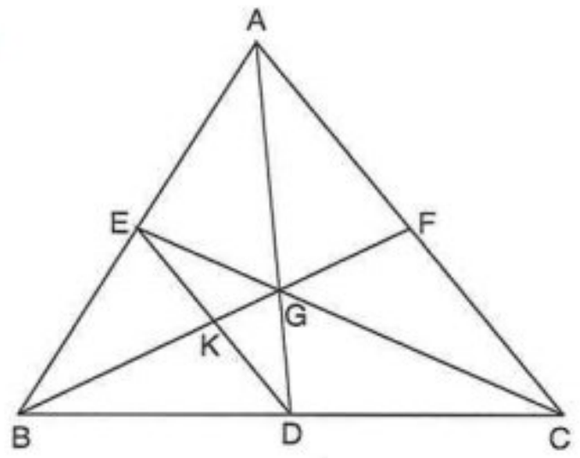


$|AE| = |EB|$
$|AF| = |FC|$
$[BF] \perp [CE]$
$|BG| = 16\,br$
$|CG| = 12\,br$

$\Rightarrow |\mathbf{AK}| = ?$

A) 5 B) 10 C) 15 D) 20 E) 25

41.

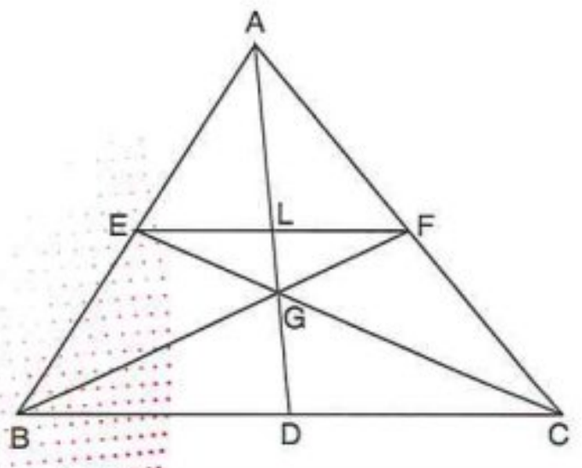


G, ağırlık merkezi,
(center of gravity)
$|DE| = 8\,br$

$\Rightarrow |\mathbf{AC}| = ?$

A) 12 B) 16 C) 18 D) 24 E) 30

42.



G, ağırlık merkezi,
(center of gravity)
$[BF] \perp [CE]$
$|LF| = 5\,br$

$\Rightarrow |\mathbf{AL}| = ?$

A) 5 B) 10 C) 12 D) 15 E) 18

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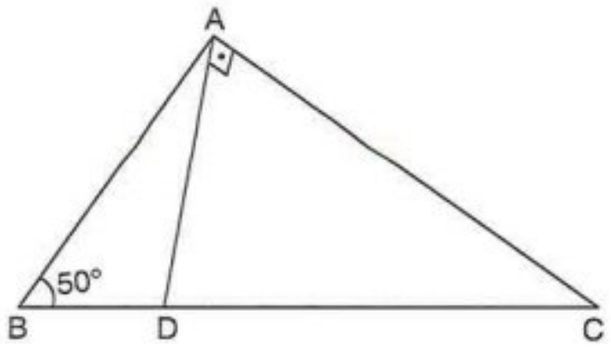
43.

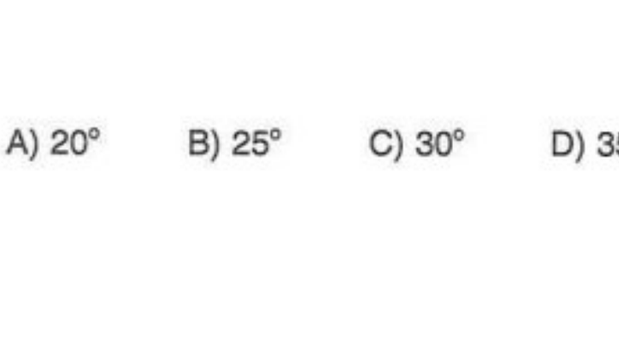


$[AD] \perp [AC]$
$|DC| = 2|AB|$
$m(\widehat{ABC}) = 50°$

$\Rightarrow m(\widehat{ACB}) = ?$

A) 20° B) 25° C) 30° D) 35° E) 40°

44.

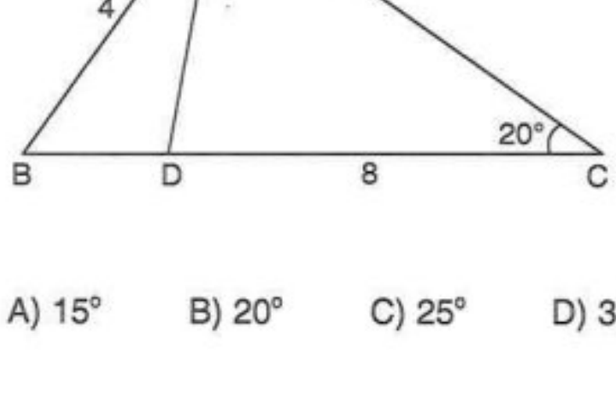


$[AD] \perp [AC]$
$|DC| = 8$ br
$|AB| = 4$ br
$m(\widehat{ACB}) = 20°$

$\Rightarrow m(\widehat{BAD}) = ?$

A) 15° B) 20° C) 25° D) 30° E) 40°

45.

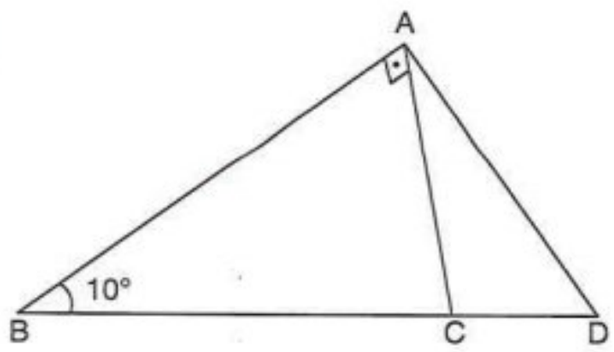


$[AD] \perp [AC]$
$m(\widehat{ABC}) = 30°$
$m(\widehat{ACB}) = 15°$
$|DC| = 12$ br

$\Rightarrow |AB| = ?$

A) 3 B) 4 C) 6 D) 8 E) 12

46.

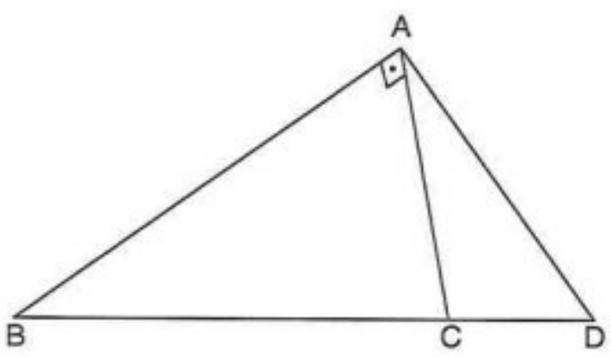


$[AB] \perp [AC]$
$m(\widehat{ABC}) = 10°$
$\frac{|BC|}{|AD|} = 2$

$\Rightarrow m(\widehat{CAD}) = ?$

A) 20° B) 40° C) 50° D) 60° E) 80°

47.



$[AB] \perp [AC]$
$|AD| = 3$ br
$|BC| = 6$ br
$m(\widehat{CAD}) = 75°$

$\Rightarrow m(\widehat{ABC}) = ?$

A) 5° B) 10° C) 15° D) 20° E) 25°

48.

$[AB] \perp [AC]$
$[AD] \perp [DC]$
$|AB| = |BE| = |EC|$
$|ED| = 2\sqrt{3}$ br

$\Rightarrow m(\widehat{ABC}) = ?$

A) $12\sqrt{3}$ B) 12 C) 8 D) $4\sqrt{3}$ E) 6

37. D	38. C	39. D	40. C	41. B	42. D
43. B	44. D	45. C	46. D	47. A	48. B

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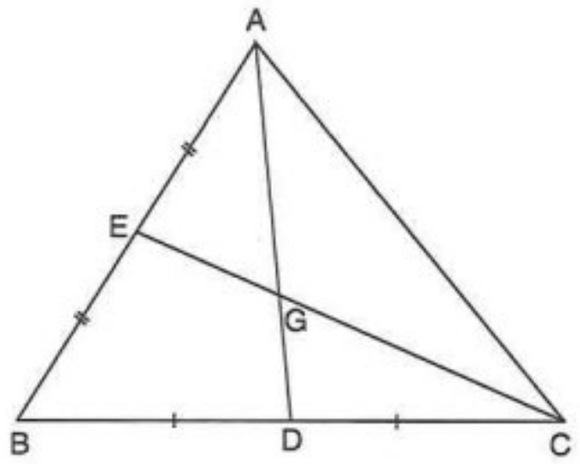
1.

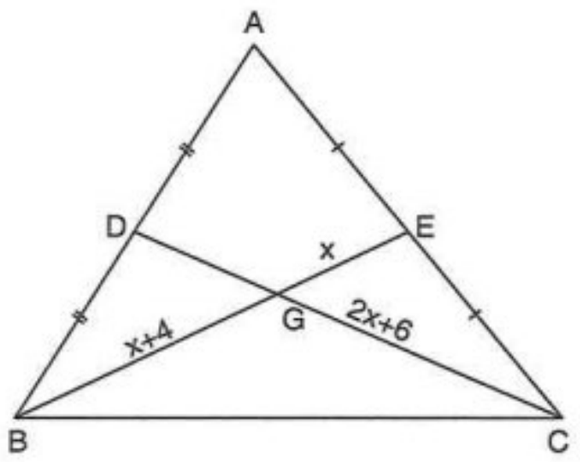


$|AE| = |EB|$
$|BD| = |DC|$
$|AD| = 15\,br$
$|CE| = 24\,br$

$\Rightarrow |EG| + |GD| = ?$

A) 12 B) 13 C) 16 D) 18 E) 20

2.

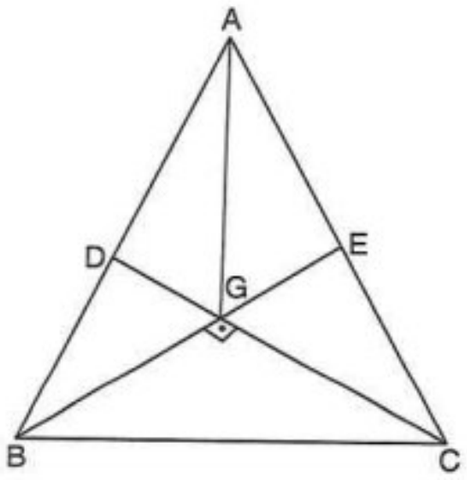


$|AD| = |DB|$
$|AE| = |EC|$
$|GE| = x\ br$
$|BG| = (x+4)\,br$
$|GC| = (2x+6)\,br$

$\Rightarrow |DG| = ?$

A) 7 B) 9 C) 10 D) 11 E) 12

3.

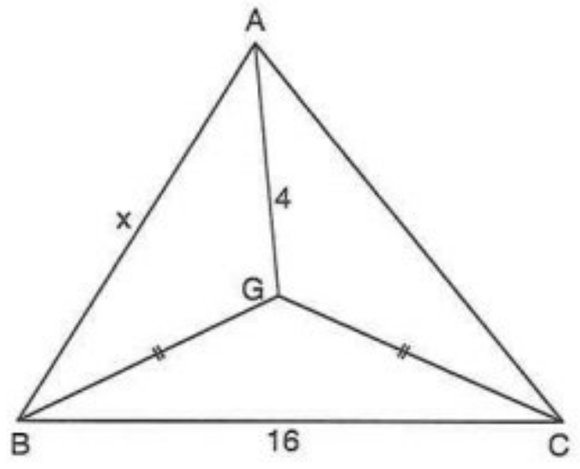


G, ağırlık merkezi
(center of gravity)
$[BE] \perp [CD]$
$|BC| = 12\,br$

$\Rightarrow |AG| = ?$

A) 8 B) 6 C) 12 D) 18 E) 24

4.

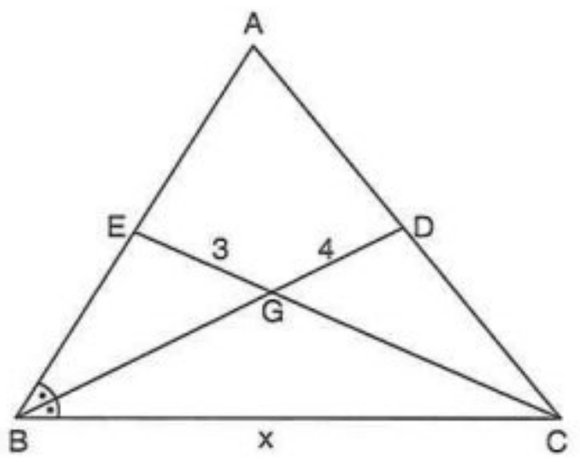


G, ağırlık merkezi
(center of gravity)
$|BG| = |GC|$
$|BC| = 16\,br$
$|AG| = 4\,br$

$\Rightarrow |AB| = x = ?$

A) 8 B) $4\sqrt{5}$ C) 10 D) $8\sqrt{2}$ E) 12

5.

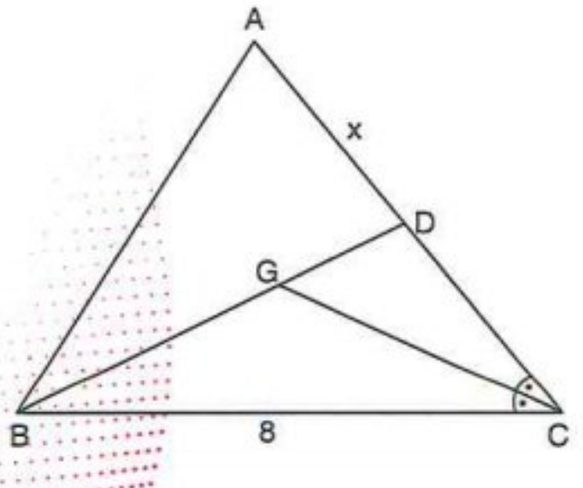


G, ağırlık merkezi
(center of gravity)
$|GE| = 3\,br$
$|GD| = 4\,br$

$\Rightarrow |BC| = ?$

A) $\sqrt{39}$ B) $\sqrt{41}$ C) $2\sqrt{39}$ D) $2\sqrt{41}$ E) $10\sqrt{2}$

6.



G, ağırlık merkezi
(center of gravity)
$m(\widehat{DCG}) = m(\widehat{GCB})$
$|BC| = 8\,br$

$\Rightarrow |AD| = x = ?$

A) 10 B) 8 C) 6 D) 4 E) 2

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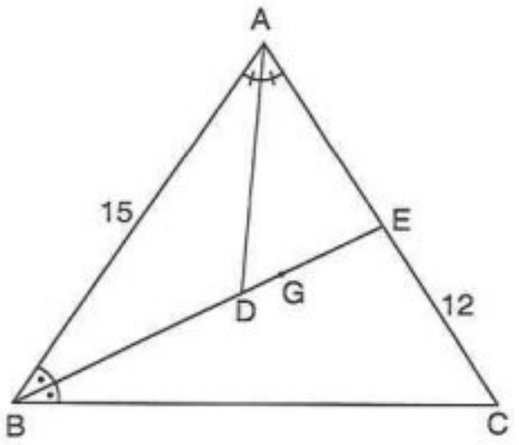
7.



G, ağırlık merkezi
(center of gravity)

$m(\widehat{BAD}) = m(\widehat{DAE})$

$m(\widehat{ABE}) = m(\widehat{EBC})$

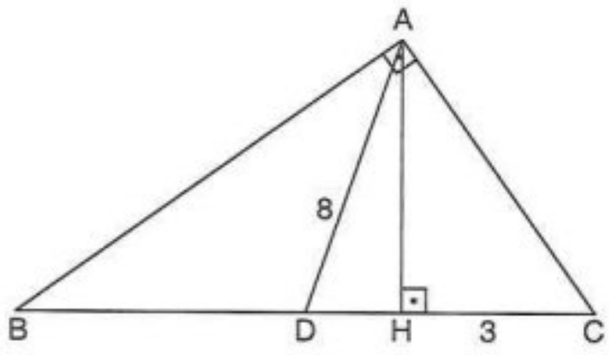
$|AB| = 15$ br

$|EC| = 12$ br

⇒ $|\mathbf{GE}| = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

8.



$[AB] \perp [AC]$

$[AH] \perp [BC]$

$|BD| = |DC|$

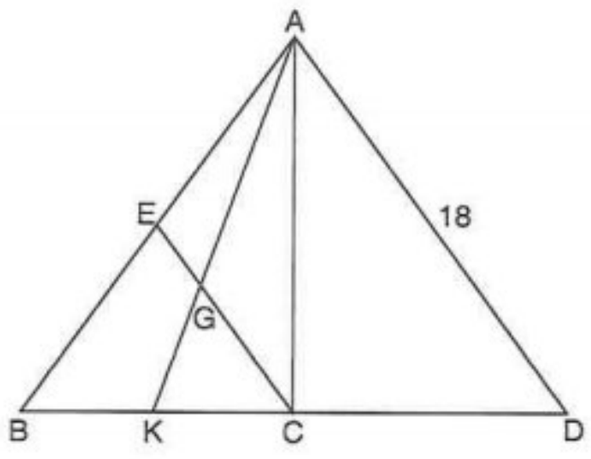
$|AD| = 8$ br

$|HC| = 3$ br

⇒ $|\mathbf{AB}| = ?$

A) $4\sqrt{3}$ B) 8 C) $8\sqrt{2}$ D) $4\sqrt{13}$ E) $4\sqrt{17}$

9.



G, ABC üçgeninin
ağırlık merkezi
(G, center of gravity ABC triangle's)

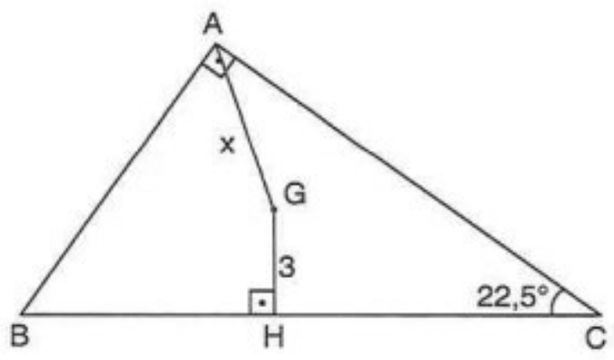
$|BC| = |CD|$

$|AD| = 18$ br

⇒ $|\mathbf{GC}| = ?$

A) 3 B) 4 C) 6 D) 8 E) 9

10.



G, ağırlık merkezi
(center of gravity)

$[AB] \perp [AC]$

$[GH] \perp [BC]$

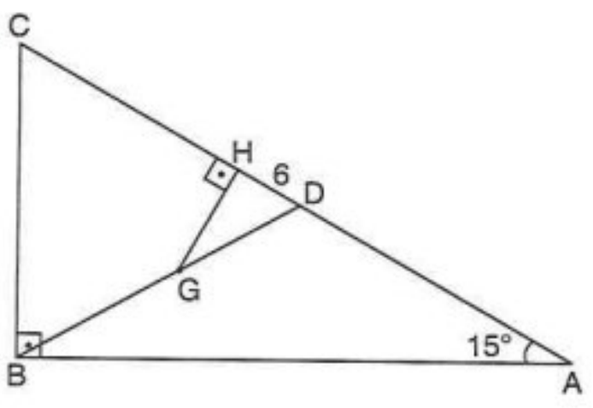
$m(\widehat{ACB}) = 22{,}5°$

$|GH| = 3$ br

⇒ $|\mathbf{AG}| = \mathbf{x} = ?$

A) $3\sqrt{2}$ B) $4\sqrt{2}$ C) 6 D) $6\sqrt{2}$ E) 12

11.



G, ağırlık merkezi
(center of gravity)

$[AB] \perp [BC]$

$[GH] \perp [AC]$

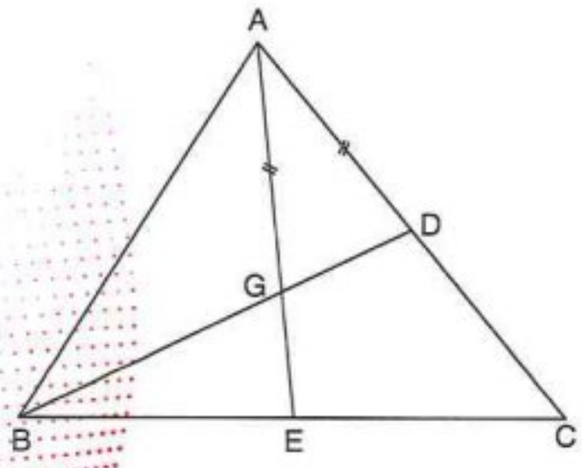
$m(\widehat{BAC}) = 15°$

$|DH| = 6$ br

⇒ $|\mathbf{AC}| = ?$

A) $12\sqrt{2}$ B) 18 C) $18\sqrt{3}$ D) 36 E) $24\sqrt{3}$

12.



G, ağırlık merkezi
(center of gravity)

$|AD| = |AG|$

$|DC| = 12$ br

⇒ $|\mathbf{EG}| = ?$

A) 3 B) 4 C) 6 D) 8 E) 12

1. B	2. A	3. C	4. C	5. D	6. D
7. C	8. D	9. C	10. D	11. E	12. C

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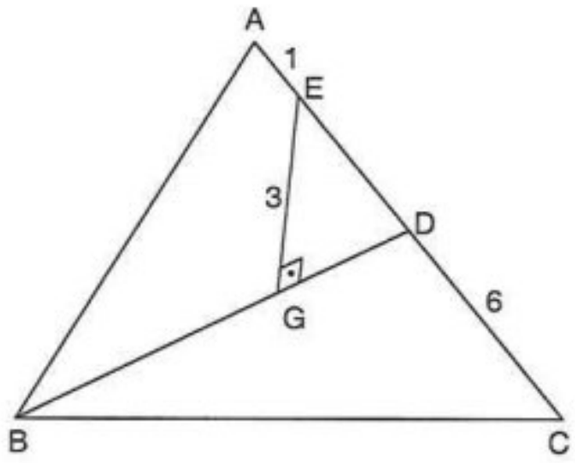
1.

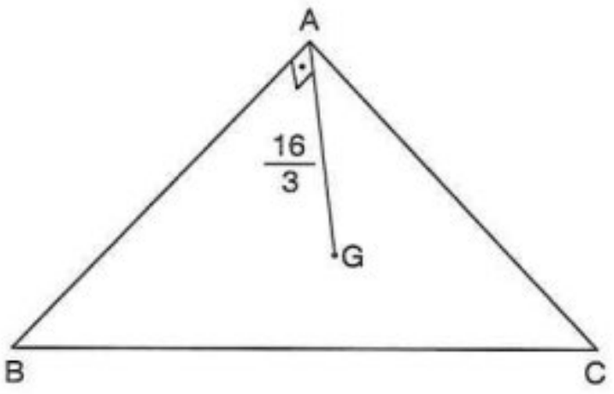


G, ağırlık merkezi
(center of gravity)
$[EG] \perp [BD]$
$|AE| = 1$ br
$|EG| = 3$ br
$|DC| = 6$ br

⇒ $|\mathbf{BG}| = ?$

A) 4 B) 6 C) 8 D) 10 E) 12

2.

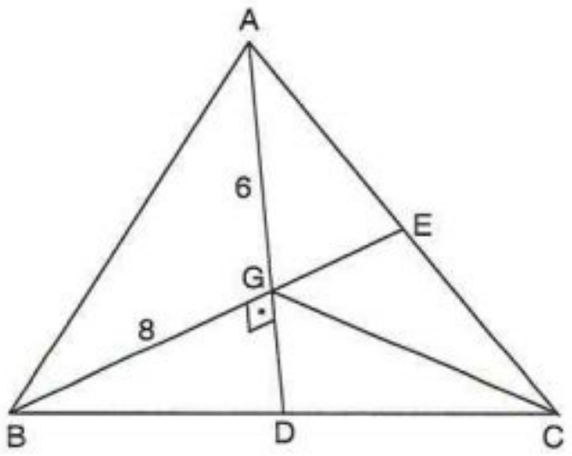


G, ağırlık merkezi
(center of gravity)
$[AG] \perp [AB]$
$|AG| = \frac{16}{3}$ br
$|AB| = 6$ br

⇒ $|\mathbf{BC}| = ?$

A) 18 B) 20 C) 22 D) 24 E) 26

3.

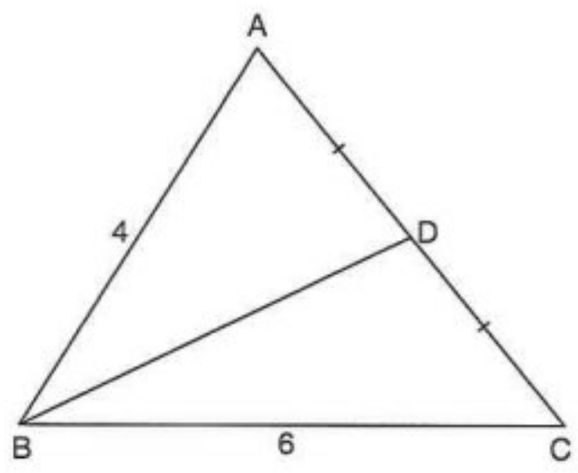


G, ağırlık merkezi
(center of gravity)
$[BE] \perp [AD]$
$|AG| = 6$ br
$|BG| = 8$ br

⇒ $|\mathbf{GC}| = ?$

A) 8 B) 6 C) 10 D) 18 E) 24

4.

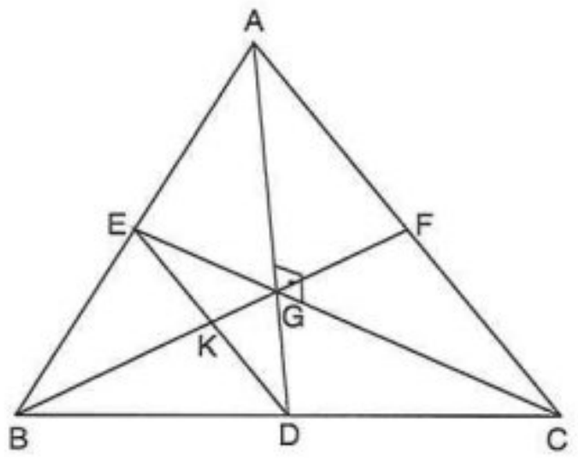


$|AD| = |DC|$
$|BC| = 6$ br
$|AB| = |AC| = 4$ br

⇒ $|\mathbf{BD}| = ?$

A) $\sqrt{13}$ B) $\sqrt{22}$ C) $2\sqrt{13}$ D) $3\sqrt{7}$ E) $4\sqrt{5}$

5.

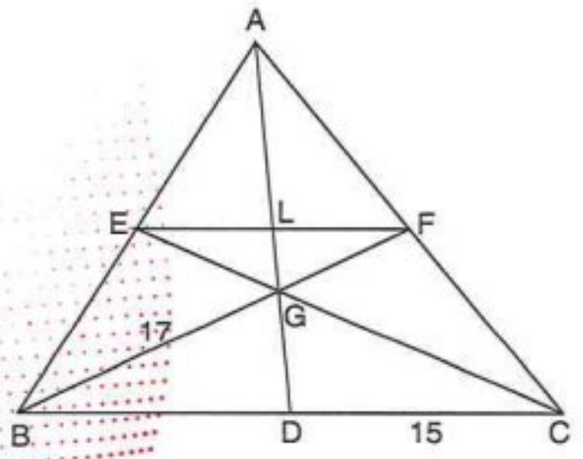


G, ağırlık merkezi
(center of gravity)
$[AD] \perp [CE]$
$|EG| = 6$ br
$|GD| = 8$ br

⇒ $|\mathbf{BK}| = ?$

A) 5 B) 10 C) 12 D) 15 E) 20

6.



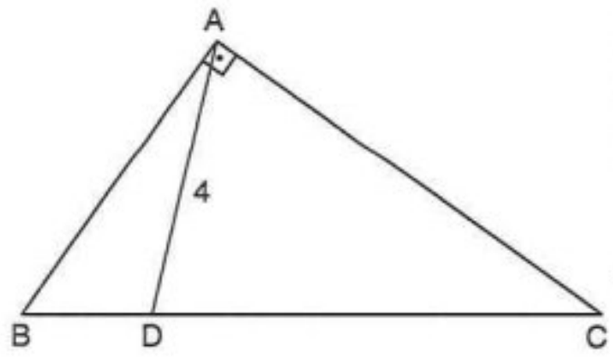
G, ağırlık merkezi
(center of gravity)
$|AB| = |AC|$
$|DC| = 15$ br
$|BG| = 17$ br

⇒ $|\mathbf{LG}| = ?$

A) 2 B) 4 C) 6 D) 8 E) 10

IRANINOVIN
CamScanner المسوحة ضوئيا بـ

7.

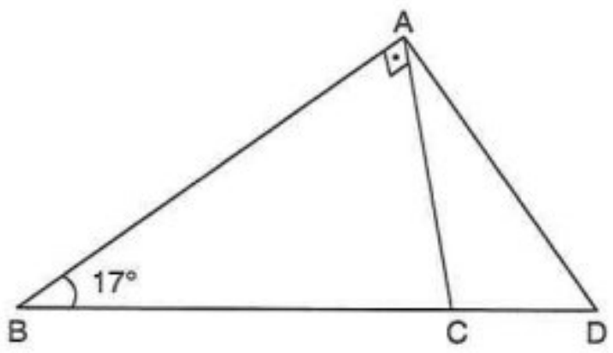


$[AB] \perp [AC]$
$m(\widehat{ADC}) = 2m(\widehat{ACB})$
$|AD| = 4\,br$

⇒ $|BC| = ?$

A) 4 B) 6 C) 8 D) 10 E) 12

8.

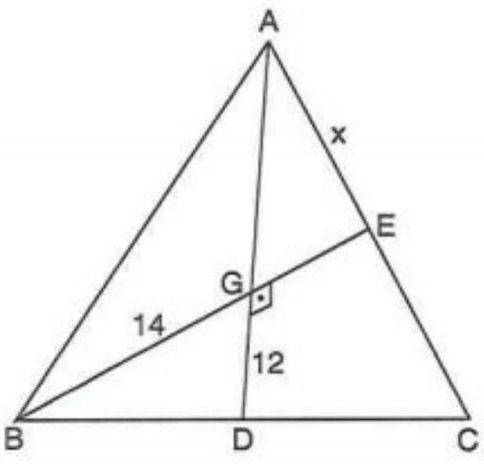


$[AB] \perp [AC]$
$m(\widehat{ABD}) = 17°$
$|BC| = 2|AD|$

⇒ $m(\widehat{CAD}) = ?$

A) 37° B) 38° C) 39° D) 40° E) 41°

9.

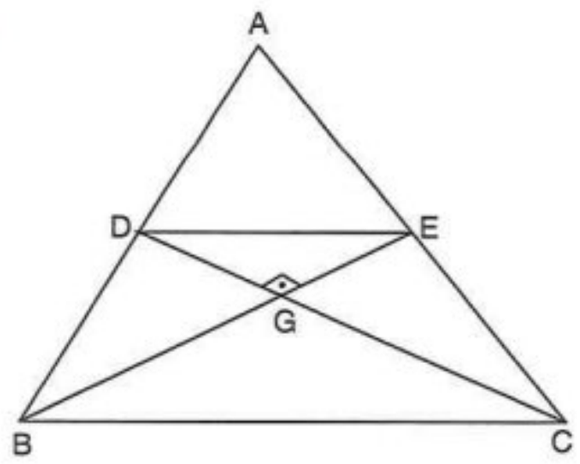


G, ağırlık merkezi
(center of gravity)
$|BG| = 14\,br$
$|GD| = 12\,br$

⇒ $|AE| = x = ?$

A) 25 B) 27 C) 30 D) 32 E) 36

10.

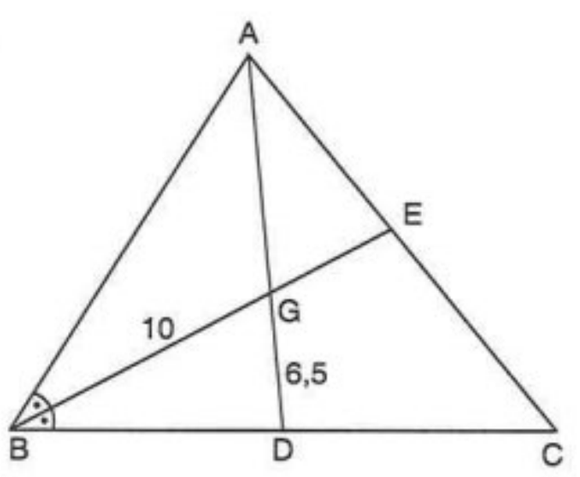


G, ağırlık merkezi
(center of gravity)
$[CD] \perp [BE]$
$|BG| = 12\,br$
$|CG| = 16\,br$

⇒ $|DE| = ?$

A) 8 B) 9 C) 10 D) 12 E) 15

11.

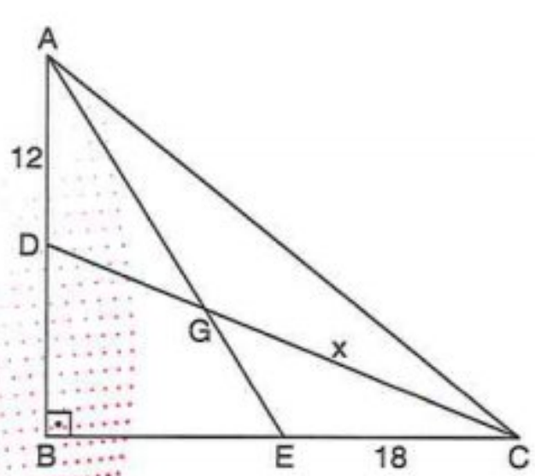


G, ağırlık merkezi
(center of gravity)
[BE] açıortay,
(*bisector*)
$|BG| = 10\,br$
$|GD| = 6,5\,br$

⇒ $|AC| = ?$

A) 12 B) 13 C) 20 D) 24 E) 26

12.



G, ağırlık merkezi
(center of gravity)
$[AB] \perp [BC]$
$|AD| = 12\,br$
$|EC| = 18\,br$

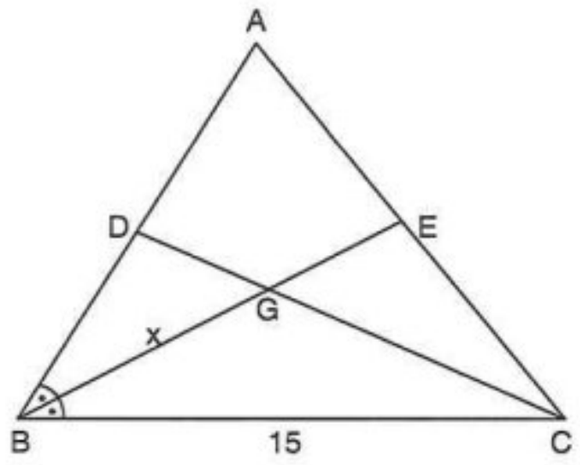
⇒ $|GC| = x = ?$

A) $4\sqrt{10}$ B) $6\sqrt{5}$ C) $6\sqrt{10}$ D) $8\sqrt{5}$ E) $8\sqrt{10}$

1. C	2. B	3. C	4. B	5. D	6. B
7. C	8. C	9. A	10. C	11. D	12. E

IRANINOVIN
الممسوحة ضوئيا بـ CamScanner

1.

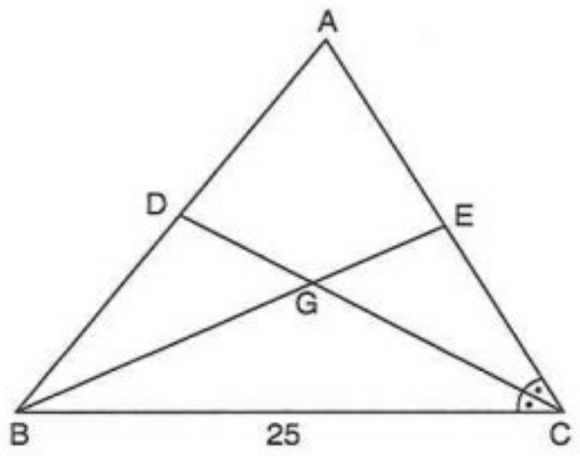


$|AD| = |DB|$
$|AE| = |EC|$
$m(\widehat{ABE}) = m(\widehat{EBC})$
$|AE| = 12\,br$
$|BC| = 15\,br$

$\Rightarrow$ **$|BG| = x = ?$**

A) 6 B) 8 C) 10 D) 12 E) 13

2.

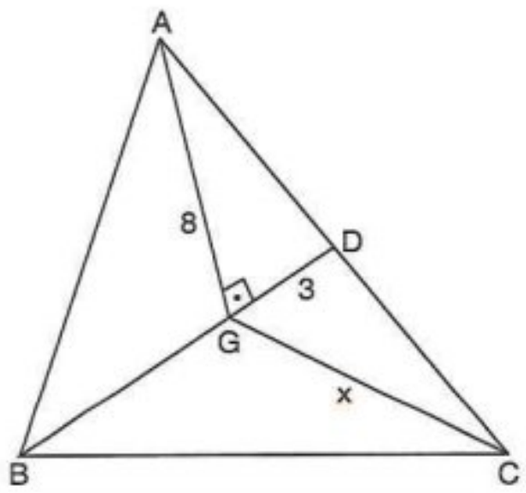


G, ağırlık merkezi
(center of gravity)
$m(\widehat{BCD}) = m(\widehat{DCA})$
$|GC| = 16\,br$
$|BC| = 25\,br$

$\Rightarrow$ **$|AB| = ?$**

A) 10 B) 14 C) 15 D) 16 E) 24

3.

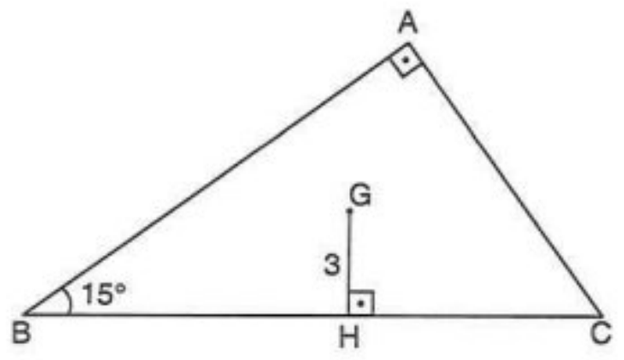


G, ağırlık merkezi
(center of gravity)
$[AG] \perp [BD]$
$|AG| = 8\,br$
$|GD| = 3\,br$

$\Rightarrow$ **$|GC| = x = ?$**

A) 6 B) 8 C) 10 D) 12 E) 14

4.

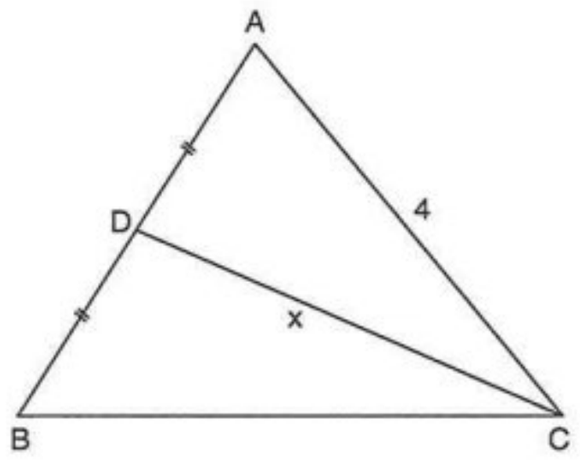


G, ağırlık merkezi
(center of gravity)
$[AB] \perp [AC]$
$[GH] \perp [BC]$
$m(\widehat{ABC}) = 15°$
$|GH| = 3\,br$

$\Rightarrow$ **$|BC| = ?$**

A) 12 B) 15 C) 18 D) 24 E) 36

5.

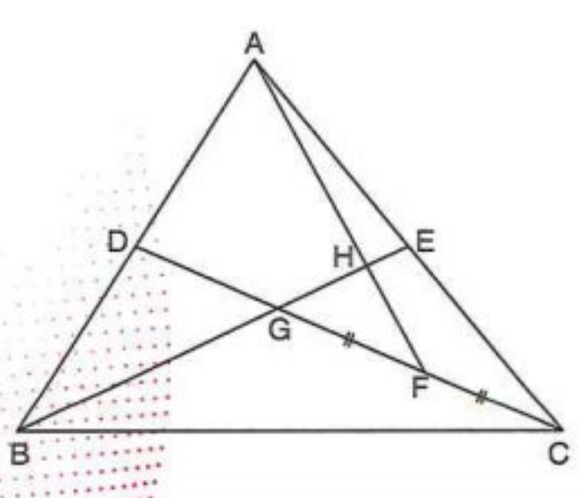


$|AD| = |DB|$
$|AB| = |BC| = 6\,br$
$|AC| = 4\,br$

$\Rightarrow$ **$|DC| = x = ?$**

A) $\sqrt{7}$ B) $\sqrt{11}$ C) $\sqrt{15}$ D) $\sqrt{17}$ E) $\sqrt{19}$

6.



G, ABC üçgeninin
ağırlık merkezi
(G, *center of gravity ABC triangle's)*
$|GF| = |FC|$
$|BE| = 36\,br$

$\Rightarrow$ **$|GH| = ?$**

A) 4 B) 8 C) 9 D) 12 E) 16

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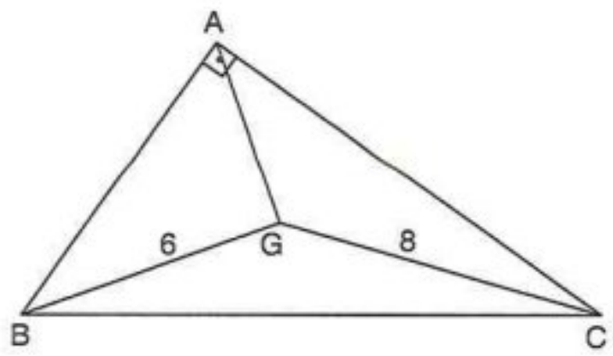
7.

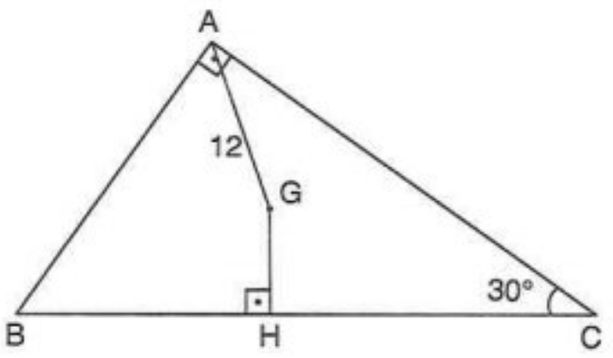


G, ağırlık merkezi
(center of gravity)
$[AB] \perp [AC]$
$|BG| = 6$ br
$|GC| = 8$ br

⇒ $|\mathbf{BC}| = ?$

A) 3 B) $3\sqrt{2}$ C) $3\sqrt{5}$ D) $6\sqrt{2}$ E) $6\sqrt{5}$

8.

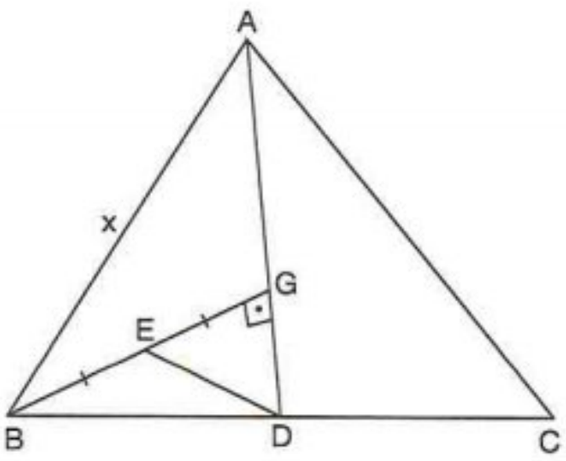


G, ağırlık merkezi
(center of gravity)
$[AB] \perp [AC]$
$[GH] \perp [BC]$
$|AG| = 12$ br

⇒ $|\mathbf{BH}| = ?$

A) 11 B) 12 C) 13 D) 14 E) 15

9.

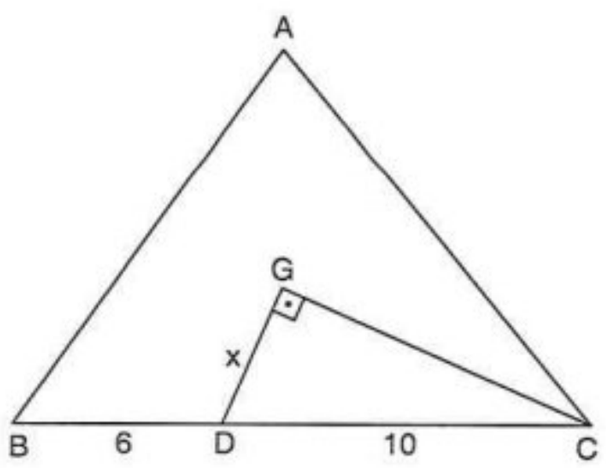


G, ağırlık merkezi
(center of gravity)
$[BG] \perp [AD]$
$|BE| = |EG|$
$|ED| = 2$ br

⇒ $|\mathbf{AB}| = \mathbf{x} = ?$

A) 4 B) 6 C) 8 D) 10 E) 12

10.

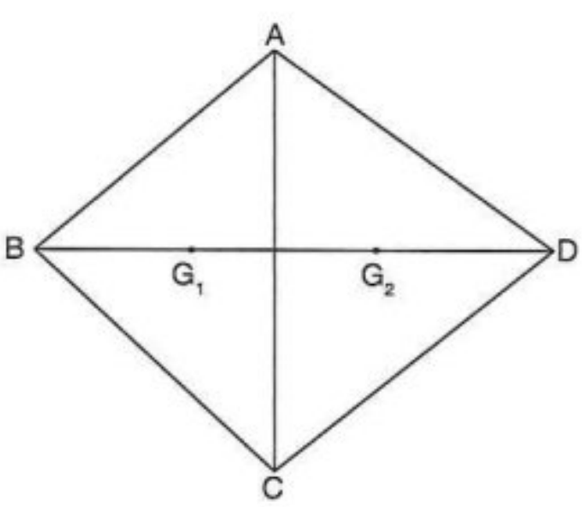


G, ağırlık merkezi
(center of gravity)
$[GD] \perp [GC]$
$|AB| = |AC|$
$|BD| = 6$ br
$|DC| = 10$ br

⇒ $|\mathbf{GD}| = \mathbf{x} = ?$

A) $\sqrt{5}$ B) $2\sqrt{5}$ C) $3\sqrt{5}$ D) 18 E) $4\sqrt{5}$

11.

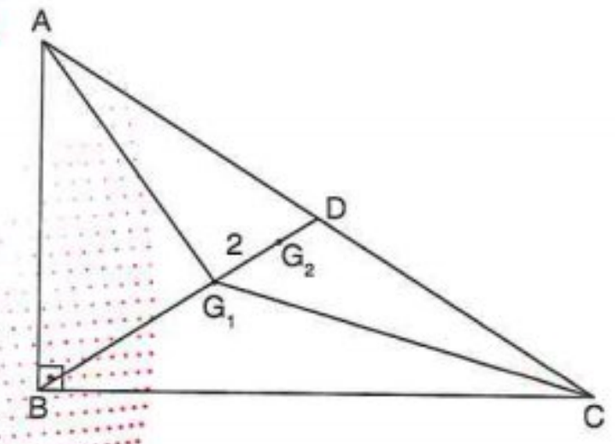


G_1, ABC üçgeninin,
G_2, ACD üçgeninin
ağırlık merkezi
(*center of gravity*)
$|BD| = 24$ br

⇒ $|\mathbf{G_1G_2}| = ?$

A) 4 B) 6 C) 8 D) 12 E) 16

12.



G_1, ABC üçgeninin,
G_2, AG_1C üçgeninin
ağırlık merkezi
(*center of gravity*)
$[AB] \perp [BC]$
$|G_1G_2| = 2$ br

⇒ $|\mathbf{AC}| = ?$

A) 8 B) 12 C) 14 D) 16 E) 18

1. A	2. B	3. C	4. E	5. D	6. B
7. E	8. E	9. A	10. B	11. C	12. E

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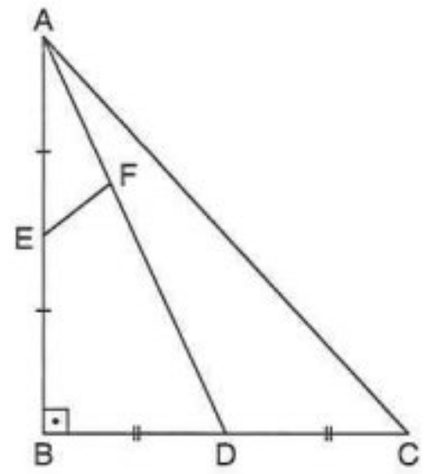
الممسوحة ضوئيا بـ CamScanner

1.

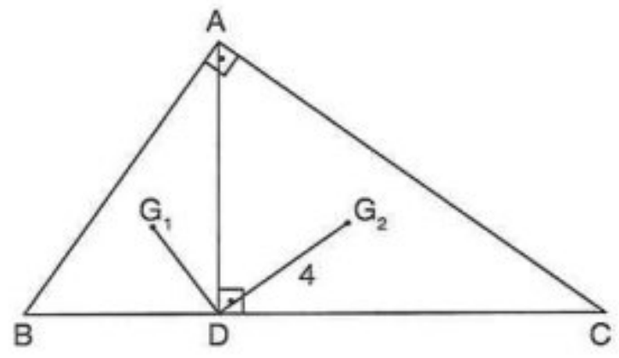


$[AB] \perp [BC]$
$|DC| = 3$ br
$|AE| = 4$ br
$|DF| = 2|AF|$

⇒ $|EF| = ?$

A) $\frac{5}{2}$ B) $\frac{5}{3}$ C) $\frac{10}{3}$ D) 5 E) 10

2.

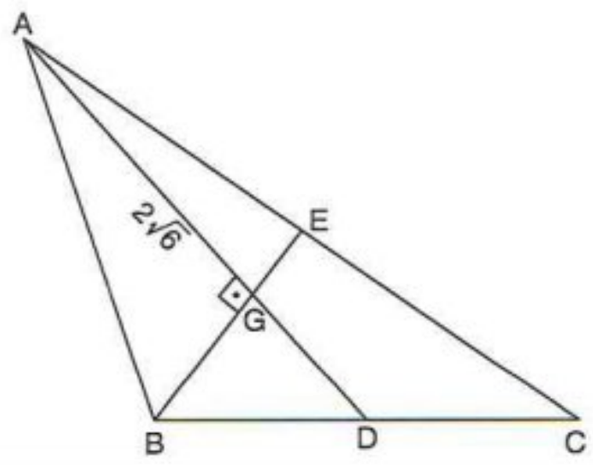


G_1, ABD, G_2, ADC üçgeninin ağırlık merkezi,
(*center of gravity*)
$[AB] \perp [AC]$
$[AD] \perp [BC]$
$|G_1D| = 3$ br
$|G_2D| = 4$ br

⇒ $|BC| = ?$

A) 6 B) 9 C) 12 D) 15 E) 18

3.

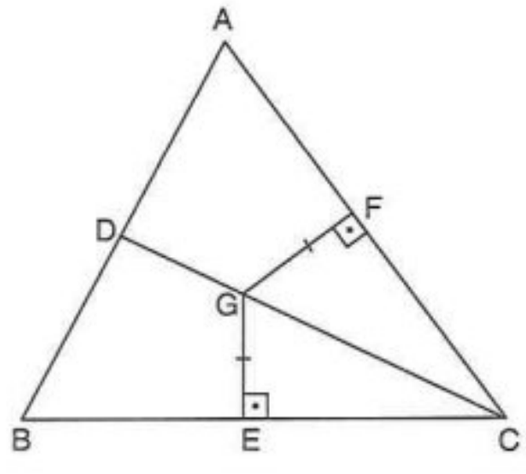


G, ağırlık merkezi
(center of gravity)
$[AD] \perp [BE]$
$|AG| = 2\sqrt{6}$ br
$|AE| = 6$ br

⇒ $|DC| = ?$

A) $2\sqrt{3}$ B) 6 C) $3\sqrt{5}$ D) $4\sqrt{3}$ E) $3\sqrt{6}$

4.

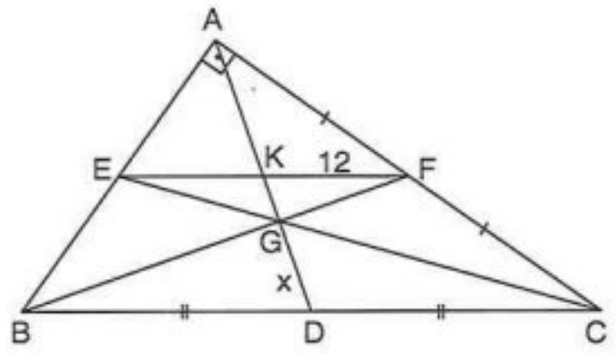


G, ağırlık merkezi
(center of gravity)
$[GE] \perp [BC]$
$[GF] \perp [AC]$
$|GE| = |GF|$
$|DG| = 4$ br
$|AB| = 18$ br

⇒ **Ç(ABC) = ?**

A) 24 B) 36 C) 48 D) 64 E) 72

5.

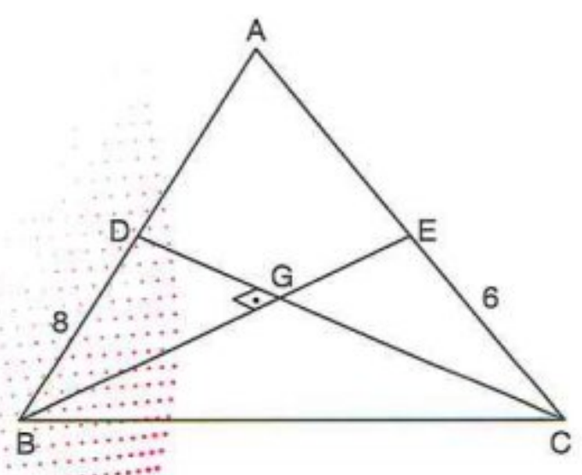


G, ağırlık merkezi
(center of gravity)
$[AB] \perp [AC]$
$|KF| = 12$ br

⇒ $|GD| = ?$

A) 3 B) 4 C) 6 D) 8 E) 12

6.



G, ağırlık merkezi
(center of gravity)
$[BE] \perp [CD]$
$|BD| = 8$ br
$|CE| = 6$ br

⇒ $|BC| = ?$

A) $2\sqrt{5}$ B) $3\sqrt{5}$ C) $4\sqrt{5}$ D) 10 E) 12

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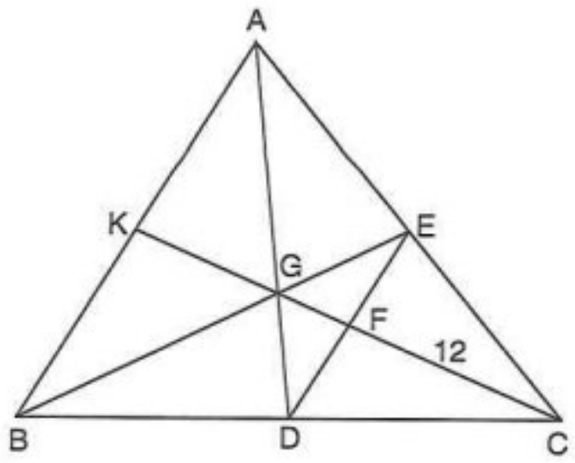
الممسوحة ضوئيا بـ CamScanner

7.

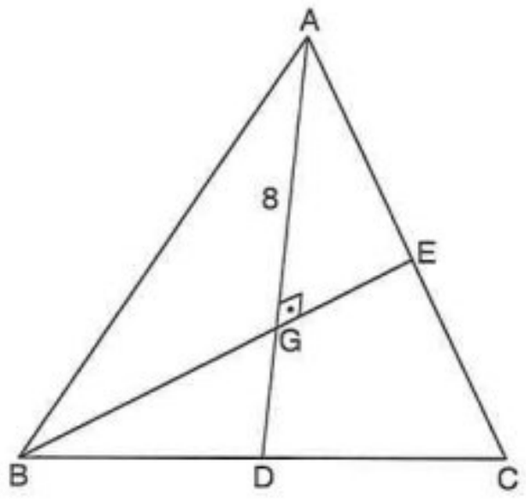


G, ağırlık merkezi
(center of gravity)
$|AB| = |AC|$
$|FC| = 12$ br

⇒ $|BG| = ?$

A) 6 B) 8 C) 9 D) 12 E) 16

8.

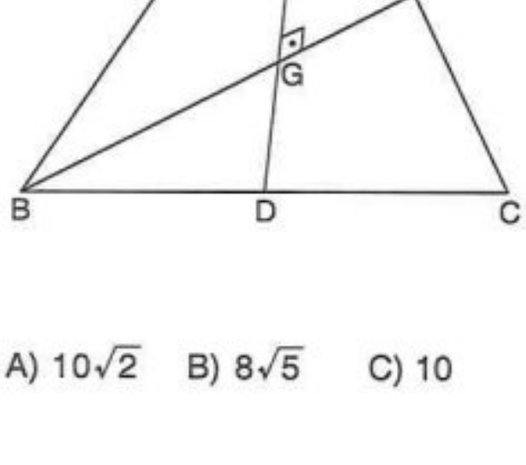


G, ağırlık merkezi
(center of gravity)
$[AD] \perp [BE]$
$|AC| = |BC|$
$|AG| = 8$ br

⇒ $|BC| = ?$

A) $10\sqrt{2}$ B) $8\sqrt{5}$ C) 10 D) $4\sqrt{5}$ E) $4\sqrt{2}$

9.

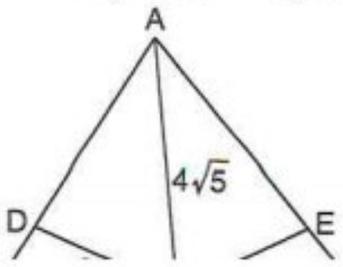


G, ağırlık merkezi
(center of gravity)
$|AB| = |AC| = |BC|$
$[GD] \mathbin{/\!/} [BC]$
$|DB| = 2\sqrt{3}$ br

⇒ $|AG| = x = ?$

A) 4 B) $4\sqrt{3}$ C) 6 D) $6\sqrt{3}$ E) 12

10.

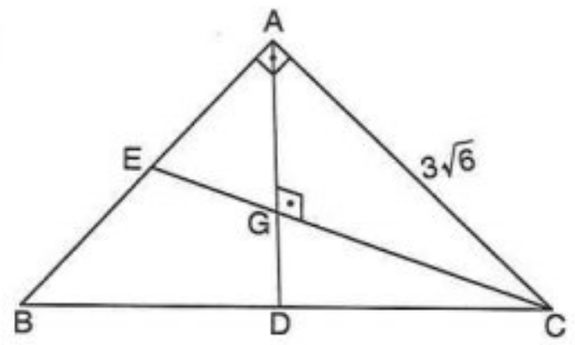


G, ağırlık merkezi
(center of gravity)
$[BE] \perp [DC]$
$|AG| = 4\sqrt{5}$ br
$|DG| = 2$ br

⇒ $|EG| = x = ?$

A) 1 B) 2 C) 4 D) 6 E) 8

11.

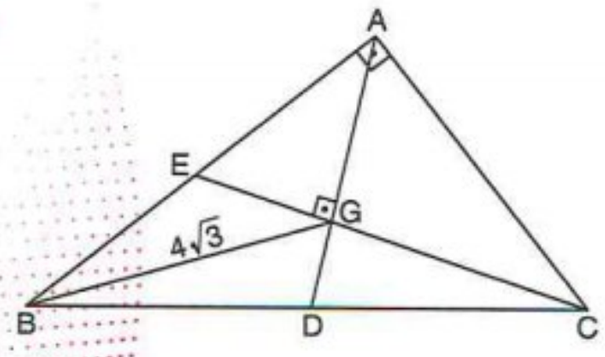


G, ağırlık merkezi
(center of gravity)
$[AB] \perp [AC]$
$[AD] \perp [CE]$
$|AC| = 3\sqrt{6}$ br

⇒ $|BC| = ?$

A) $3\sqrt{3}$ B) $6\sqrt{2}$ C) $6\sqrt{3}$ D) $9\sqrt{2}$ E) $12\sqrt{2}$

12.



G, ağırlık merkezi
(center of gravity)
$[AB] \perp [AC]$
$[AD] \perp [EC]$
$|BG| = 4\sqrt{3}$ br

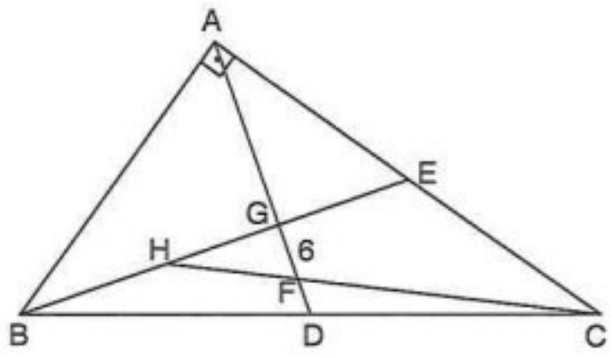
⇒ $[AG] = ?$

A) $2\sqrt{2}$ B) $2\sqrt{3}$ C) 4 D) $4\sqrt{2}$ E) $4\sqrt{3}$

1. B	2. D	3. E	4. C	5. D	6. C
7. E	8. B	9. C	10. C	11. D	12. C

IRANINOVIN
الممسوحة ضوئيا بـ CamScanner

1.

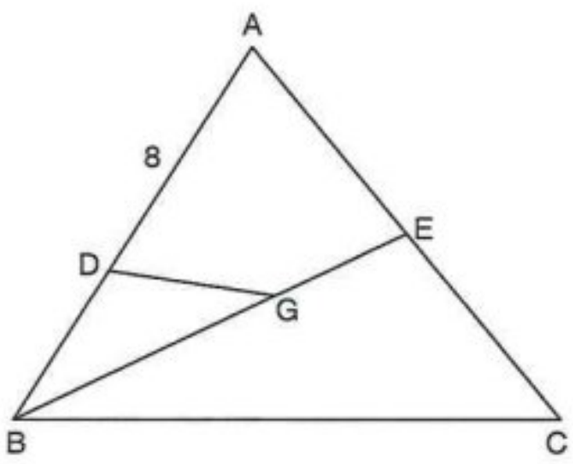


G, ağırlık merkezi
(center of gravity)
$[AB] \perp [AC]$
$|BH| = |HG|$
$|GF| = 6$ br

⇒ $|BC| = ?$

A) 12 B) 24 C) 36 D) 48 E) 54

2.

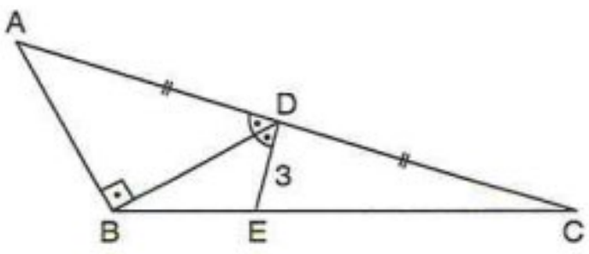


G, ağırlık merkezi
(center of gravity)
$|AB| = |AC| = |BC|$
$|BD| = |DG|$
$|AD| = 8$ br

⇒ $|BG| = ?$

A) $2\sqrt{3}$ B) 4 C) $4\sqrt{3}$ D) 8 E) $8\sqrt{3}$

3.

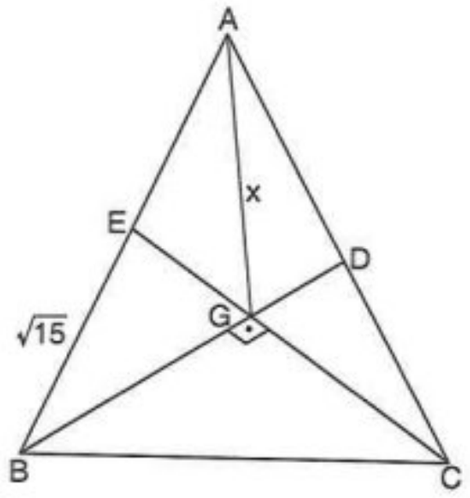


$[AB] \perp [BD]$
$m(\widehat{ADB}) = m(\widehat{BDE})$
$|AD| = |DC|$
$|ED| = 3$ br

⇒ $|AD| = ?$

A) 3 B) 4 C) 6 D) 9 E) 12

4.

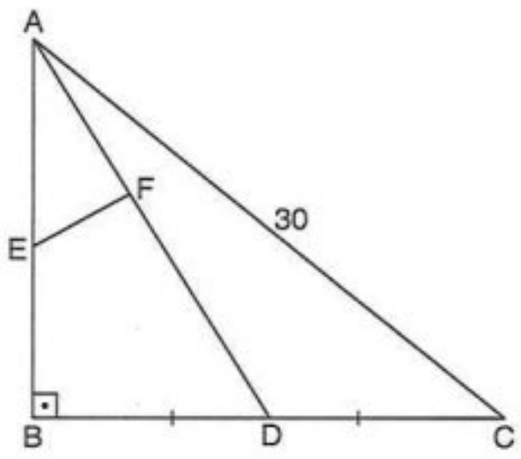


G, ağırlık merkezi
(center of gravity)
$[BD] \perp [CE]$
$|BE| = \sqrt{15}$ br
$|DC| = \sqrt{5}$ br

⇒ $|AG| = x = ?$

A) $2\sqrt{2}$ B) $2\sqrt{3}$ C) 4 D) $2\sqrt{5}$ E) $2\sqrt{6}$

5.

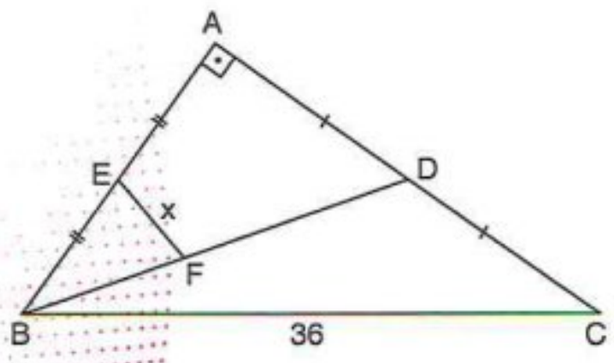


$[AB] \perp [BC]$
$|AE| = |EB|$
$|BD| = |DC|$
$|AD| = 3|AF|$
$|AC| = 30$ br

⇒ $|EF| = x = ?$

A) 5 B) 6 C) 8 D) 9 E) 10

6.



$[AB] \perp [AC]$
$|AE| = |EB|$
$|AD| = |DC|$
$\frac{|DF|}{|BD|} = \frac{2}{3}$
$|BC| = 36$ br

⇒ $|EF| = x = ?$

A) 4 B) $4\sqrt{2}$ C) 6 D) $\frac{13}{2}$ E) $5\sqrt{2}$

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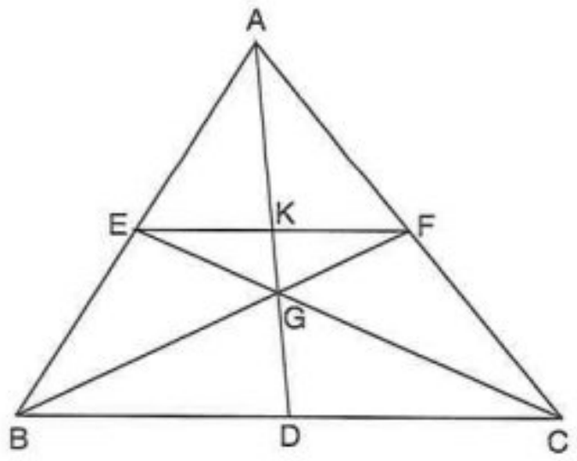
7.

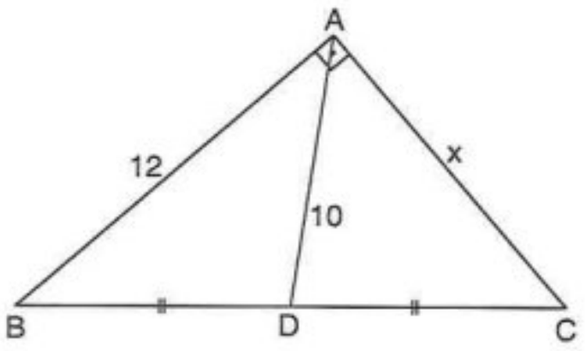


G, ağırlık merkezi
(center of gravity)
$|KG| = 2$ br

⇒ $|AD| = ?$

A) 12 B) 10 C) 8 D) 7 E) 6

8.

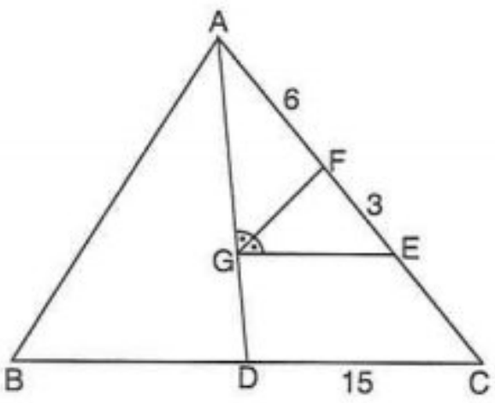


$[AB] \perp [AC]$
$|BD| = |DC|$
$|AB| = 12$ br
$|AD| = 10$ br

⇒ $|AC| = x = ?$

A) 12 B) 14 C) 16 D) 18 E) 20

9.

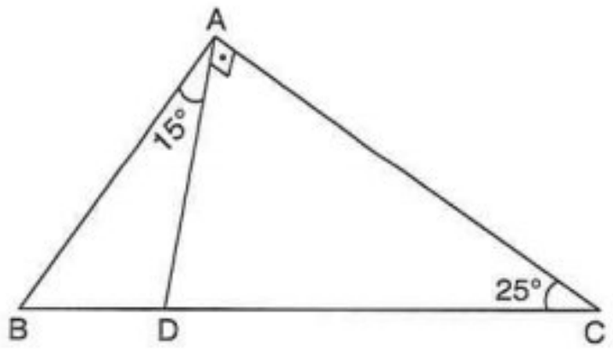


G, ağırlık merkezi
(center of gravity)
[GF] açıortay *(bisector)*
$[GE] \parallel [BC]$
$|EF| = 3$ br
$|AF| = 6$ br
$|DC| = 15$ br

⇒ $|GD| = ?$

A) 6 B) 8 C) 10 D) 12 E) 15

10.

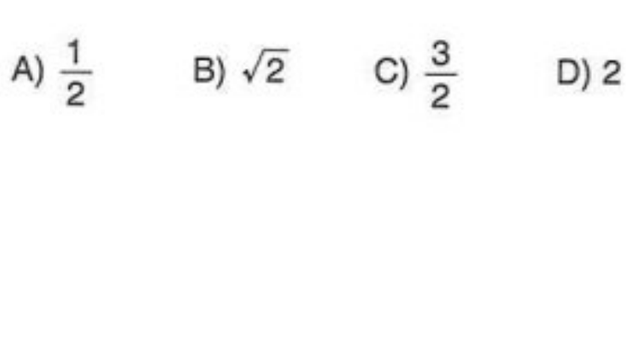


$[AD] \perp [AC]$
$m(\widehat{ACB}) = 25°$
$m(\widehat{BAD}) = 15°$

⇒ $\frac{|DC|}{|AB|} = ?$

A) $\frac{1}{2}$ B) $\sqrt{2}$ C) $\frac{3}{2}$ D) 2 E) $\frac{5}{3}$

11.

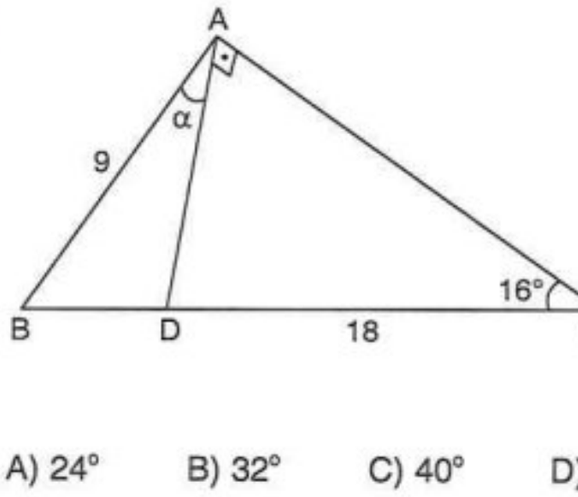


$[AD] \perp [AC]$
$m(\widehat{ACB}) = 16°$
$|DC| = 18$ br
$|AB| = 9$ br

⇒ $m(\widehat{BAD}) = \alpha = ?$

A) 24° B) 32° C) 40° D) 42° E) 48°

12.



G, ağırlık merkezi
(center of gravity)
$|EG| = 3$ br
$|FG| = 4$ br
$|DG| = 5$ br

⇒ $|AC| = ?$

A) $4\sqrt{10}$ B) $4\sqrt{11}$ C) $8\sqrt{2}$ D) $4\sqrt{13}$ E) $4\sqrt{15}$

1. E	2. C	3. D	4. C	5. A	6. C
7. A	8. C	9. C	10. D	11. D	12. D

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AÇI - KENAR BAĞINTILARI

ANGLE-SIDE RELATIONSHIPS

KONU KAVRAMA TESTİ
Thread Grip Test

ZİHİN HARİTASI
Mind Map

3
TEST
Tests

48
SORU
Questions

ANER YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS

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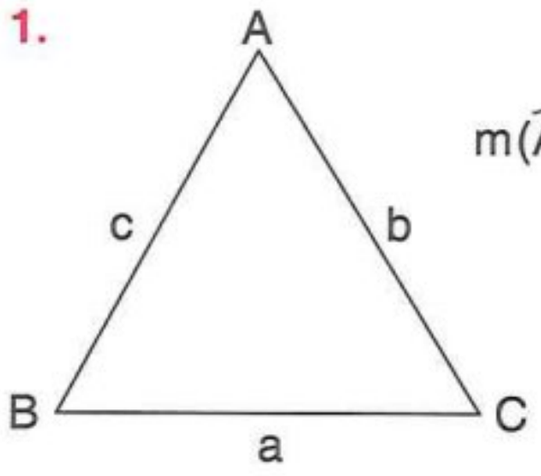
AÇI – KENAR BAĞINTILARI
ANGLE – SIDE RELATIONSHIPS

CANER eğitim kurumları

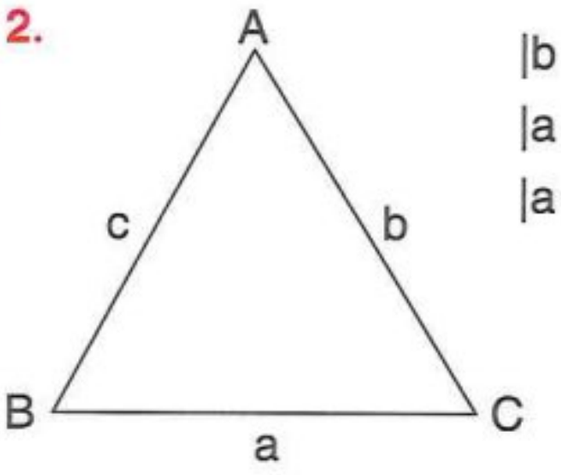
1.



$a < b < c$

$m(\widehat{A}) < m(\widehat{B}) = m(\widehat{C})$

2.

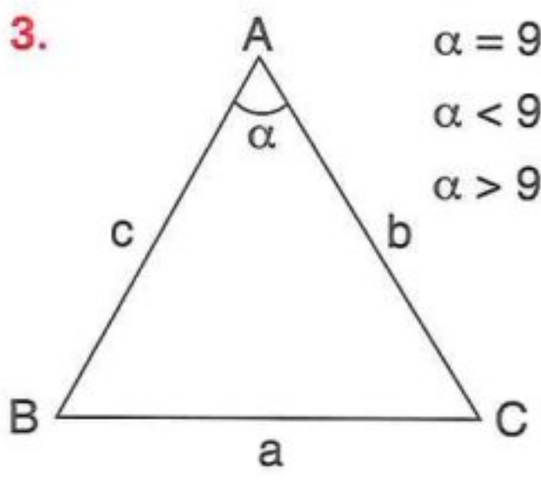


$|b - c| < a < b + c$

$|a - c| < b < a + c$

$|a - b| < c < a + b$

3.

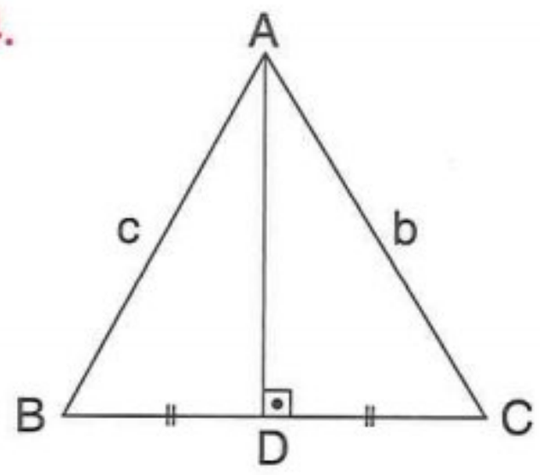


$\alpha = 90° \Rightarrow a^2 = b^2 + c^2$

$\alpha < 90° \Rightarrow a^2 < b^2 + c^2$

$\alpha > 90° \Rightarrow a^2 > b^2 + c^2$

4.



h: yükseklik (height)

n: açıortay (bisector)

v: kenarortay (median)

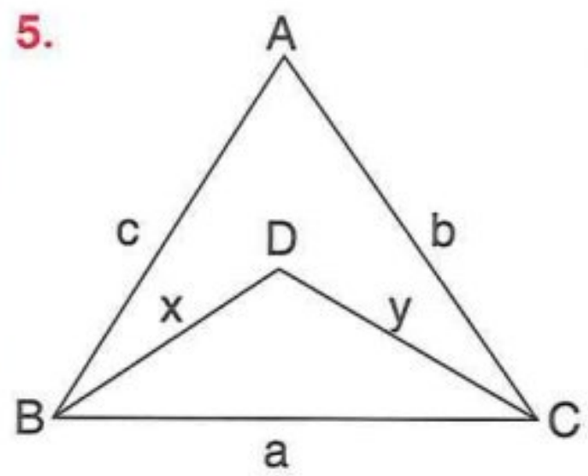
$a < b < c \Rightarrow h_a > h_b > h_c$

$\Rightarrow n_a > n_b > n_c$

$\Rightarrow v_a > v_b > v_c$

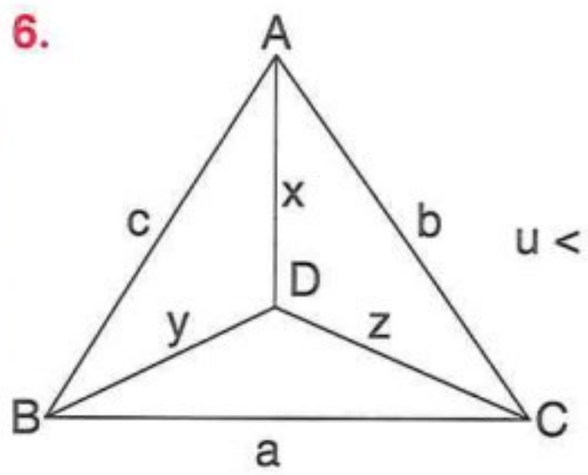
$|b - c| < 2|AD| < b + c$

5.



$x + y < b + c$

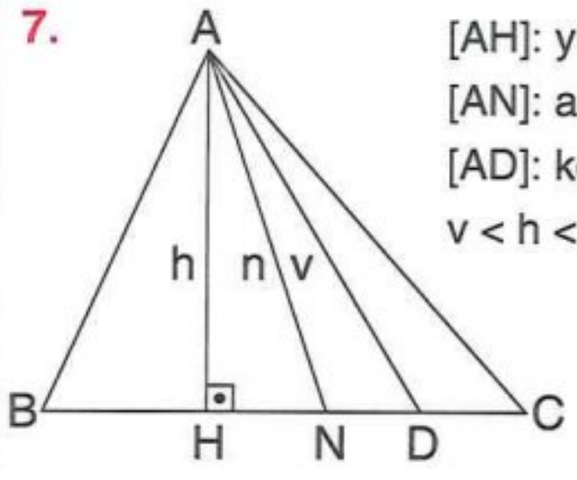
6.



$\frac{a+b+c}{2} = u$

$u < x + y + z < 2u$

7.



[AH]: yükseklik (height)

[AN]: açıortay (bisector)

[AD]: kenarortay (median)

$v < h < n$

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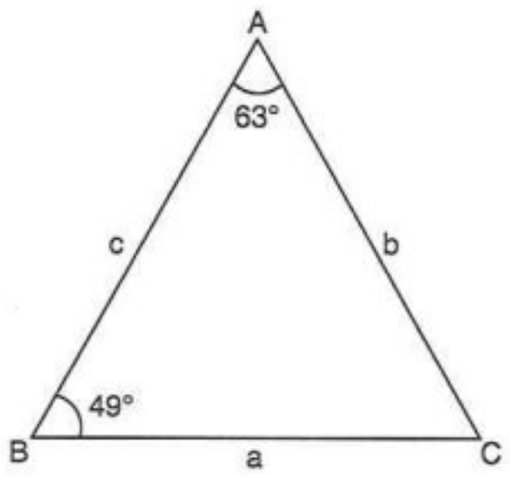
1.

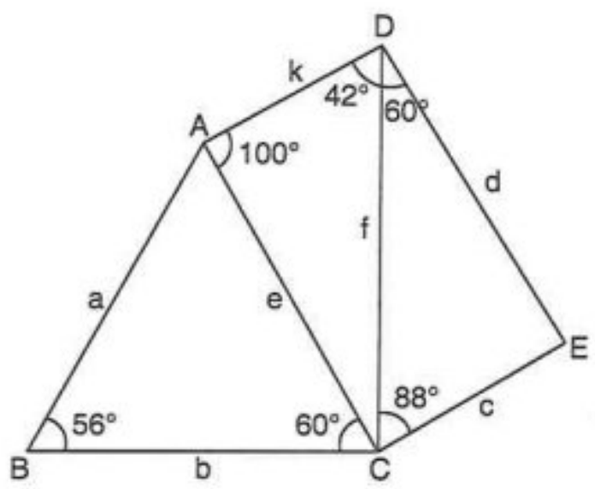


$m(B\widehat{A}C) = 63°$
$m(A\widehat{B}C) = 49°$
$|AB| = c$ br
$|AC| = b$ br
$|BC| = a$ br

⇒ **? < ? < ?**

A) c < a < b B) a < c < b C) b < a < c
D) b < c < a E) a < b < c

2.

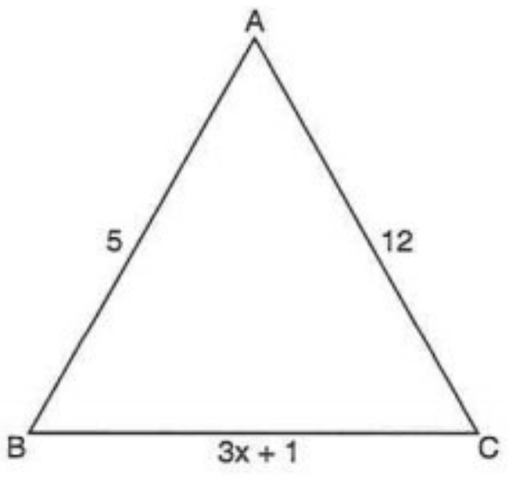


$m(C\widehat{A}D) = 100°$
$m(A\widehat{D}C) = 42°$
$m(C\widehat{D}E) = 60°$

⇒ **En kısa kenar hangisidir?**
(Which side is the shortest?)

A) k B) d C) f D) e E) b

3.

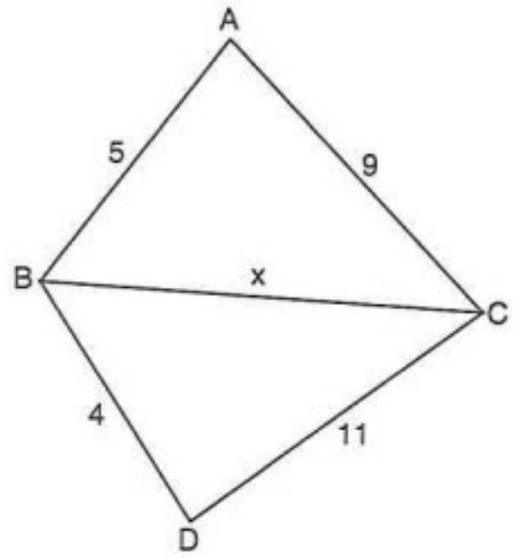


$x \in Z$
$|AB| = 5$ br
$|AC| = 12$ br
$|BC| = 3x + 1$ br

⇒ $\sum x = ?$

A) 10 B) 11 C) 12 D) 13 E) 14

4.

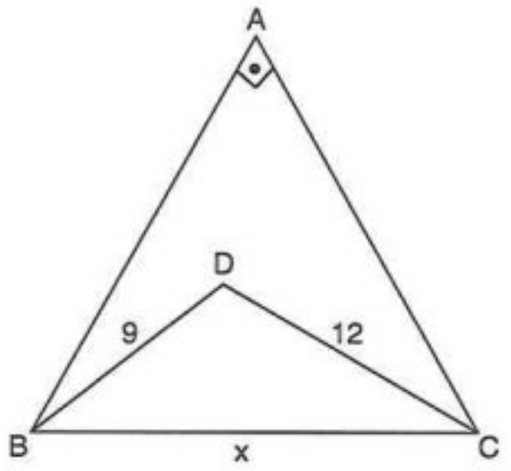


$x \in R$
$|AB| = 5$ br
$|AC| = 9$ br
$|BD| = 4$ br
$|DC| = 11$ br

⇒ **x'in tanım aralığı nedir?**
(What is th definition range of x = ?)

A) 4 < x < 15 B) 7 < x < 15 C) 9 < x < 11
D) 4 < x < 7 E) 7 < x < 14

5.

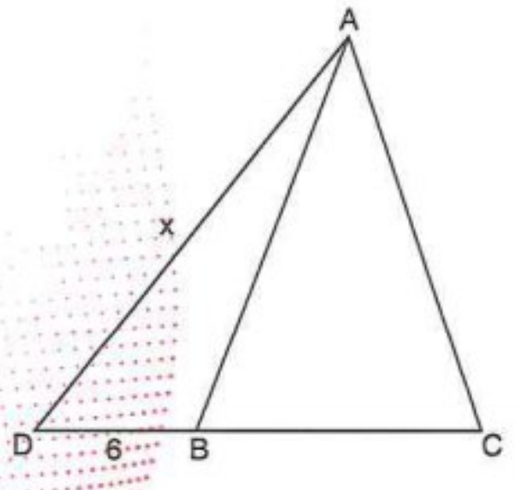


$x \in Z$
$[BA] \perp [AC]$
$|DC| = 12$ br
$|BD| = 9$ br
$|BC| = x$ br

⇒ **max(x) + min(x) = ?**

A) 21 B) 24 C) 28 D) 36 E) 41

6.



$x \in Z$
$|AB| = |AC|$
$|DB| = 6$ br
$|AB| = 10$ br

⇒ **min(x) = ?**

A) 12 B) 11 C) 9 D) 7 E) 5

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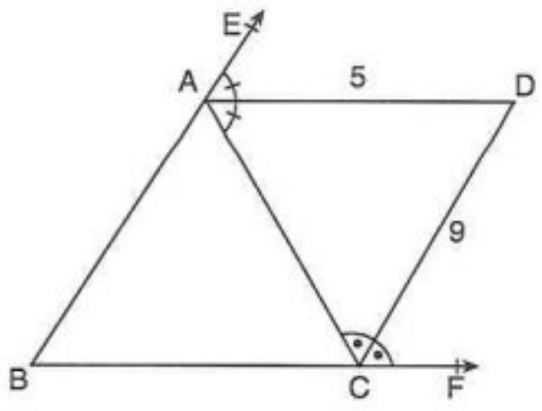
7.



$|AC| \in Z$

$m(\widehat{DAE}) = m(\widehat{DAC})$

$m(\widehat{ACD}) = m(\widehat{DCF})$

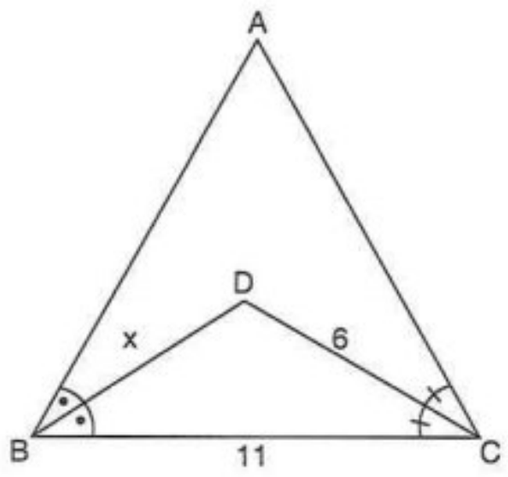
$|AD| = 5$ br

$|DC| = 9$ br

$\Rightarrow \max|AC| = ?$

A) 9 B) 10 C) 11 D) 12 E) 13

8.



$x \in Z$

$m(\widehat{ABD}) = m(\widehat{DBC})$

$m(\widehat{ACD}) = m(\widehat{DCB})$

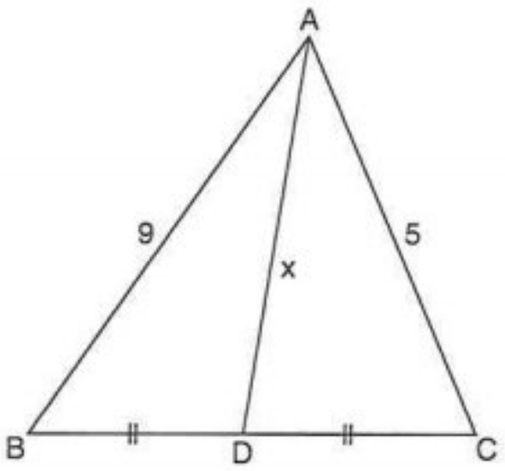
$|BC| = 11$ br

$|DC| = 6$ br

$\Rightarrow \sum x = ?$

A) 30 B) 39 C) 44 D) 58 E) 72

9.



$|BD| = |DC|$

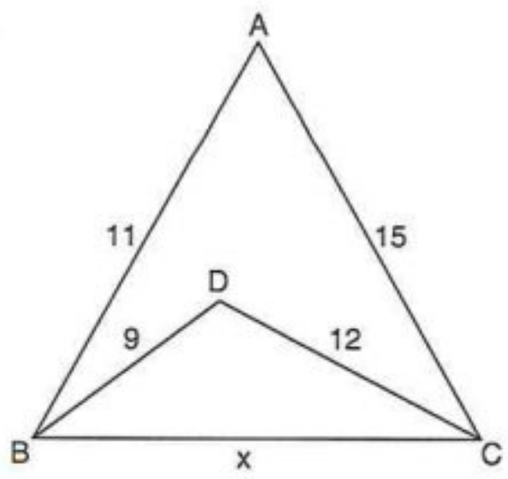
$|AB| = 9$ br

$|AC| = 5$ br

$\Rightarrow ? < x < ?$

A) $4 < x < 14$ B) $5 < x < 14$ C) $9 < x < 14$
D) $2 < x < 7$ E) $3 < x < 10$

10.



$x \in Z$

$|AB| = 11$ br

$|AC| = 15$ br

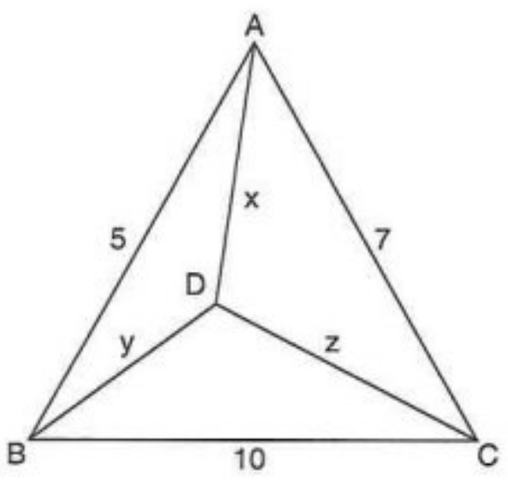
$|BD| = 9$ br

$|DC| = 12$ br

$\Rightarrow \max(x) + \min(x) = ?$

A) 20 B) 22 C) 25 D) 29 E) 33

11.



$(x + y + z) \in Z$

$|AD| = x$ br

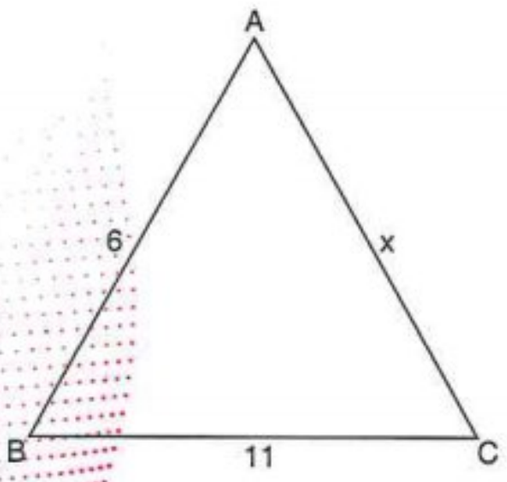
$|BD| = y$ br

$|DC| = z$ br

$\Rightarrow \min(x + y + z) = ?$

A) 11 B) 12 C) 13 D) 14 E) 15

12.



$x \in Z$

$m(A) > m(B) > m(C)$

$|AB| = 6$ br

$|BC| = 11$ br

$\Rightarrow \sum x = ?$

A) 96 B) 72 C) 58 D) 42 E) 34

1. C	2. A	3. C	4. E	5. D	6. A
7. B	8. A	9. D	10. C	11. B	12. E

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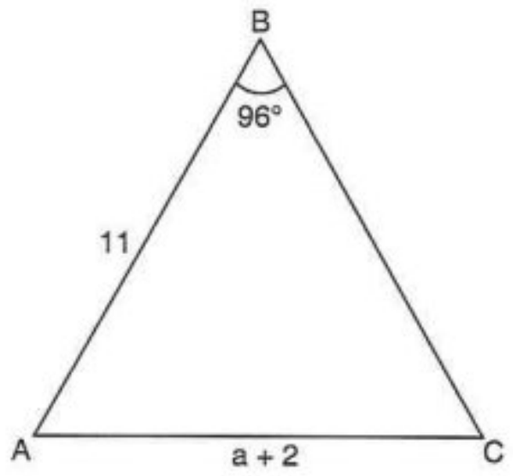
1.



$a \in Z$

$m(\widehat{ABC}) = 96°$

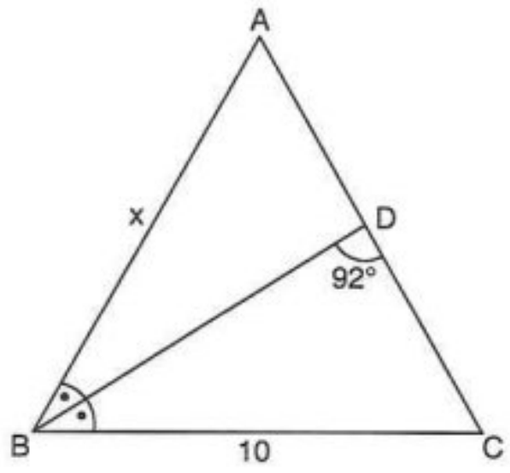
$|AB| = 11$ br

$|AC| = a + 2$ br

⇒ **min(a) = ?**

A) 6 B) 7 C) 8 D) 9 E) 10

2.



$x \in Z$

$m(\widehat{ABD}) = m(\widehat{DBC})$

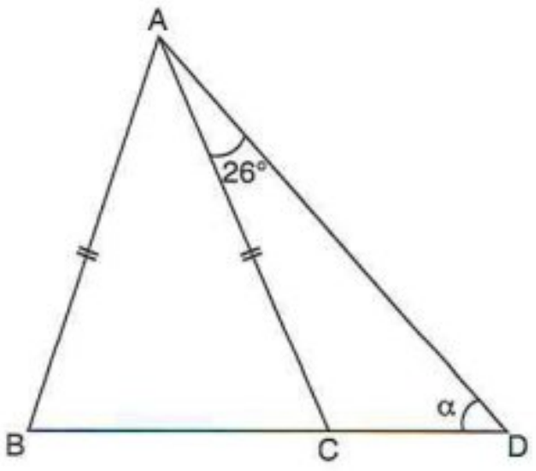
$m(\widehat{BDC}) = 92°$

$m(\widehat{ACB}) = 68°$

⇒ **max(x) = ?**

A) 8 B) 9 C) 10 D) 11 E) 12

3.



$a \in Z$

$|AB| = |AC|$

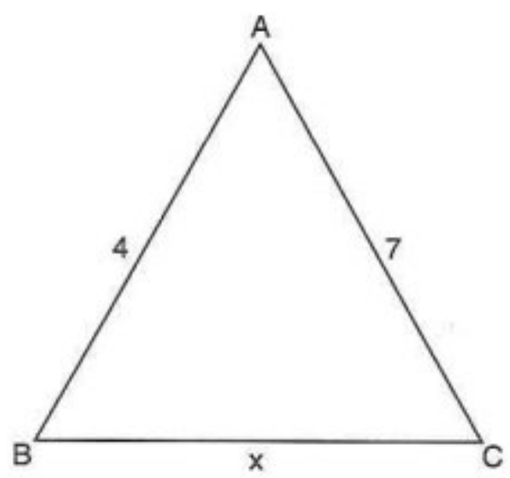
$m(\widehat{CAD}) = 26°$

$m(\widehat{CDA}) = \alpha$

⇒ **max(α) = ?**

A) 59 B) 60 C) 61 D) 62 E) 63

4.



$x \in Z$

$m(\widehat{A}) > m(\widehat{B})$

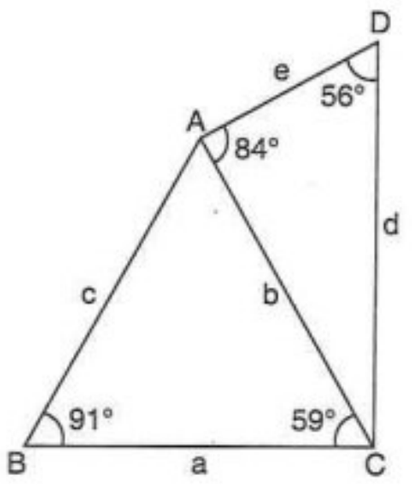
$|AB| = 4$ br

$|AC| = 7$ br

⇒ **max(x) + min(x) = ?**

A) 15 B) 16 C) 17 D) 18 E) 19

5.



$m(\widehat{ABC}) = 91°$

$m(\widehat{ACB}) = 59°$

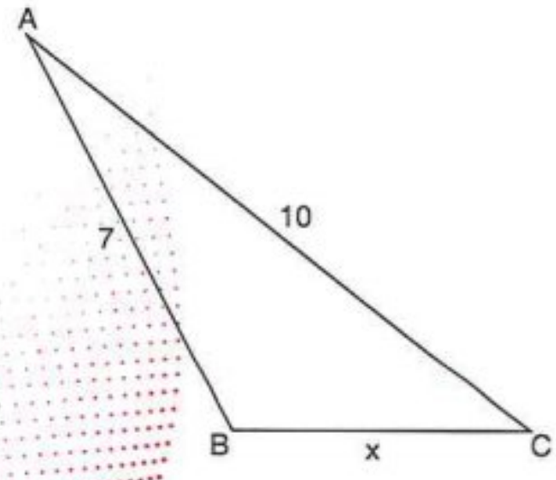
$m(\widehat{CAD}) = 84°$

$m(\widehat{ADC}) = 56°$

⇒ **En Uzun Kenar Hangisidir?**
(Which side is the longest?)

A) e B) d C) c D) b E) a

6.



$x \in Z$

$m(\widehat{B}) > m(\widehat{A}) > m(\widehat{C})$

$|AC| = 10$ br

$|AB| = 7$ br

⇒ $\sum x = ?$

A) 17 B) 22 C) 27 D) 33 E) 39

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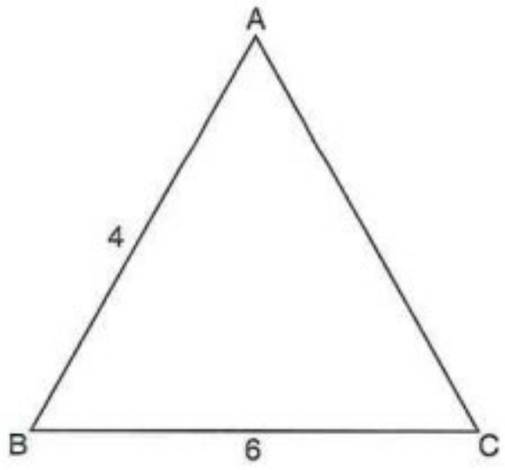
7.



$|AC| \in Z$

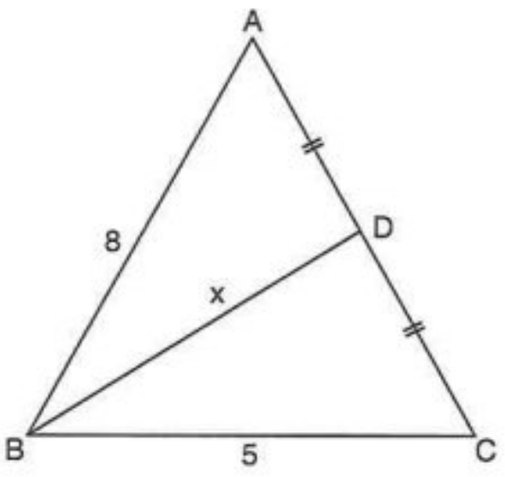
$|AB| = 4$ br

$|BC| = 6$ br

$\Rightarrow \min(Ç(ABC)) = ?$

A) 11 B) 12 C) 13 D) 14 E) 15

8.



$x \in Z$

$|AD| = |DC|$

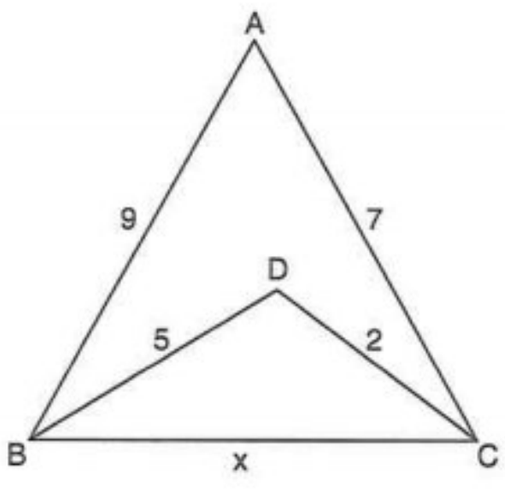
$|AB| = 8$ br

$|BC| = 5$ br

$\Rightarrow \sum x = ?$

A) 15 B) 17 C) 18 D) 20 E) 21

9.



$x \in Z$

$|AB| = 9$ br

$|AC| = 7$ br

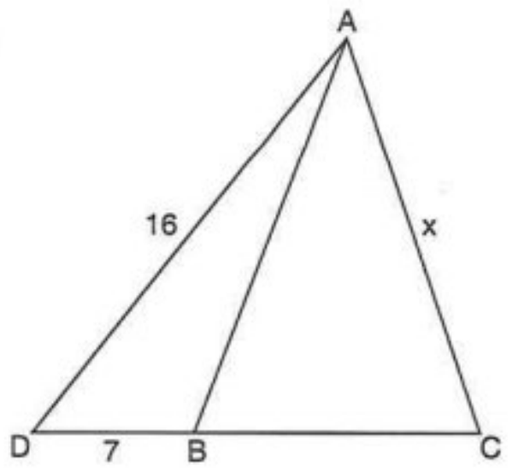
$|BD| = 5$ br

$|DC| = 2$ br

$\Rightarrow \min(x) = ?$

A) 3 B) 4 C) 5 D) 6 E) 7

10.



$x \in Z$

$|AB| = |AC|$

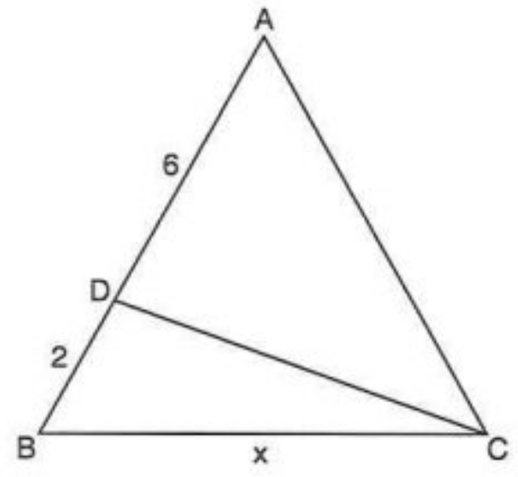
$|AD| = 16$ br

$|BD| = 7$ br

$\Rightarrow \max(x) = ?$

A) 11 B) 13 C) 14 D) 15 E) 17

11.



$x \in Z$

$m(C\hat{D}A) < 90°$

$|AC| = 9$ br

$|AD| = 6$ br

$|BD| = 2$ br

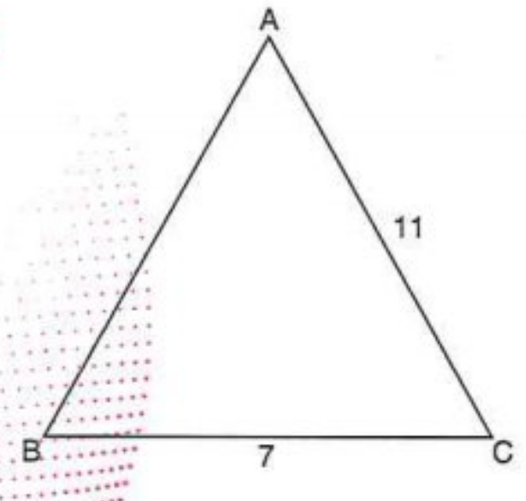
$\min(|CD|)$ için

(*for* $\min(|CD|)$)

$\Rightarrow \max(x) = ?$

A) 5 B) 6 C) 7 D) 8 E) 9

12.



$|AB| \in Z$

$m(\hat{B}) > m(\hat{C}) > m(\hat{A})$

$|AC| = 11$ br

$|BC| = 7$ br

$\Rightarrow \min(Ç(ABC)) = ?$

A) 22 B) 23 C) 24 D) 25 E) 26

1. E	2. B	3. E	4. D	5. B	6. A
7. C	8. D	9. B	10. C	11. D	12. E

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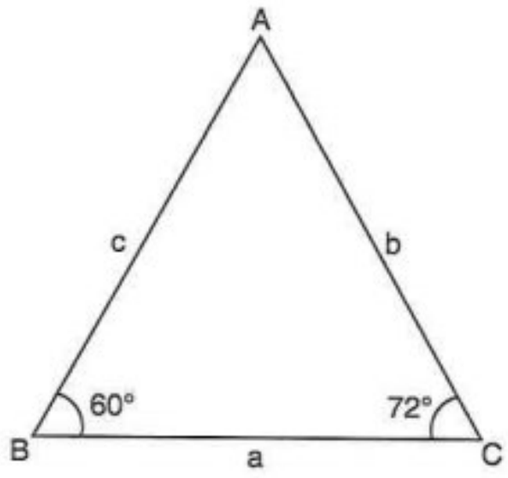
1.



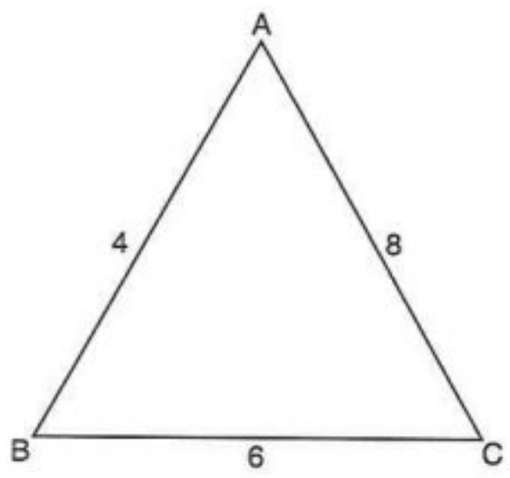
$m(\widehat{ABC}) = 60°$
$m(\widehat{ACB}) = 72°$
$|AB| = c$ br
$|AC| = b$ br
$|BC| = a$ br

⇒ **Aşağıdakilerden hangisi doğrudur?**

(Which one of the following is correct?)

A) $a > b > c$ B) $b > c > a$ C) $c > b > a$
D) $c > a > b$ E) $b > a > c$

2.



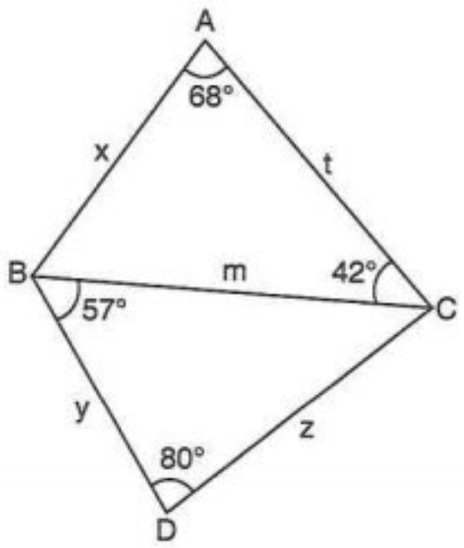
$|AC| = 8$ br
$|AB| = 4$ br
$|BC| = 6$ br

⇒ **Aşağıdakilerden hangisi doğrudur?**

(Which one of the following is correct?)

A) $m(\widehat{B}) > m(\widehat{A}) > m(\widehat{C})$ B) $m(\widehat{A}) > m(\widehat{B}) > m(\widehat{C})$
C) $m(\widehat{C}) > m(\widehat{A}) > m(\widehat{B})$ D) $m(\widehat{B}) > m(\widehat{C}) > m(\widehat{A})$
E) $m(\widehat{A}) > m(\widehat{C}) > m(\widehat{B})$

3.



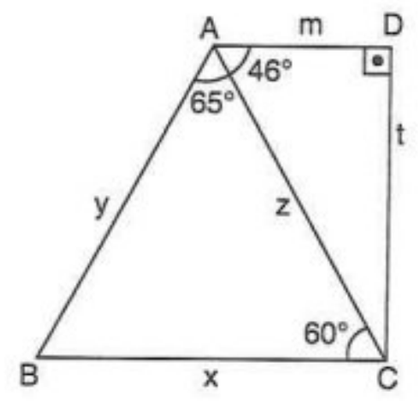
$m(\widehat{ACB}) = 42°$
$m(\widehat{DBC}) = 57°$
$m(\widehat{BAC}) = 68°$
$m(\widehat{BDC}) = 80°$

⇒ **En Uzun Kenar hangisidir?**

(Which side is the longest?)

A) m B) t C) y D) z E) x

4.



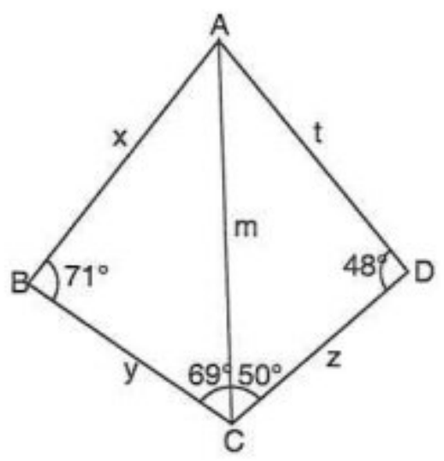
$[AD] \perp [DC]$
$m(\widehat{BAC}) = 65°$
$m(\widehat{DAC}) = 46°$
$m(\widehat{ACB}) = 60°$

⇒ **En Kısa Kenar Hangisidir?**

(Which side is the shortest?)

A) m B) t C) x D) y E) z

5.



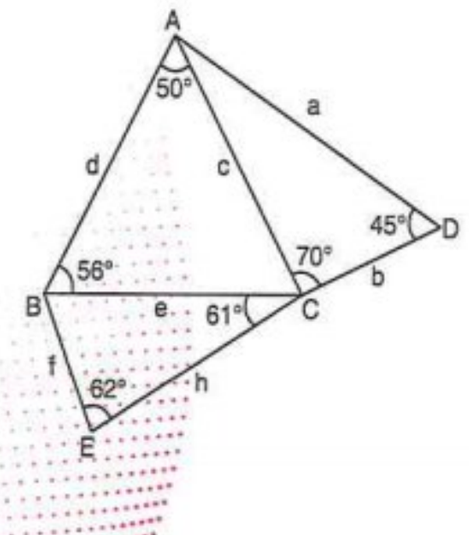
$m(\widehat{ACB}) = 69°$
$m(\widehat{ABC}) = 71°$
$m(\widehat{ADC}) = 48°$
$m(\widehat{ACD}) = 50°$

⇒ **En Kısa Kenar Hangisidir?**

(Which side is the shortest?)

A) y B) y C) z D) t E) m

6.



$m(\widehat{BAC}) = 50°$
$m(\widehat{ABC}) = 56°$
$m(\widehat{ADC}) = 45°$
$m(\widehat{ACD}) = 70°$
$m(\widehat{BCE}) = 61°$
$m(\widehat{BEC}) = 62°$

⇒ **En Kısa Kenar Hangisidir?**

(Which side is the shortest?)

A) e B) c C) a D) h E) f

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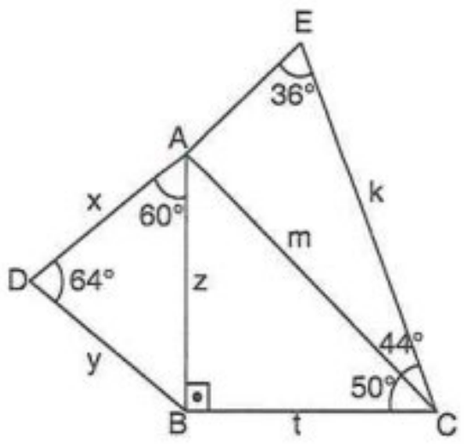
7.

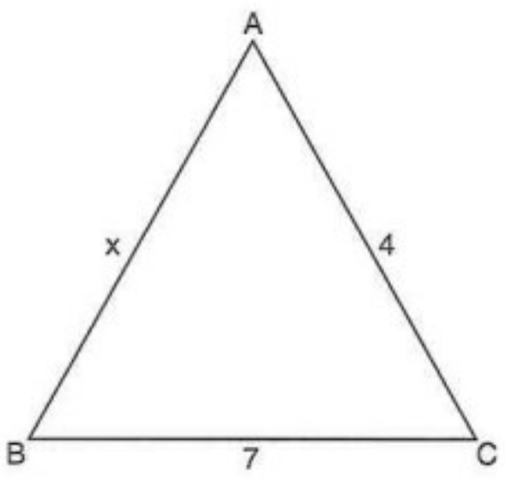


$|AB| \perp |BC|$
$m(\widehat{ADB}) = 64°$
$m(\widehat{DAB}) = 60°$
$m(\widehat{BCA}) = 50°$
$m(\widehat{ACE}) = 44°$
$m(\widehat{AEC}) = 36°$

⇒ **En Uzun Kenar Hangisidir?**
(Which side is the longest)

A) m B) z C) k D) n E) y

8.

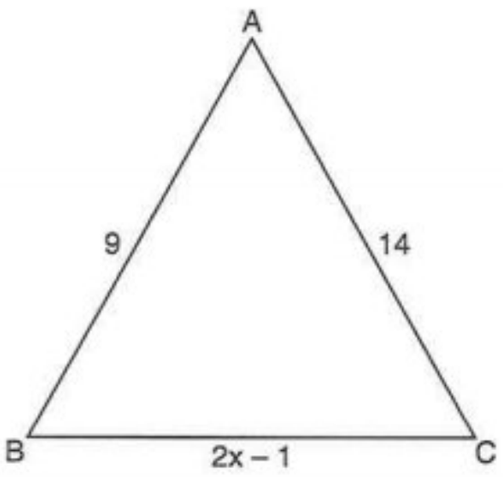


$x \in R$
$|BC| = 7\,br$
$|AC| = 4\,br$

⇒ **x'in tanım aralığı nedir?**
(What is the definition range of x = ?)

A) $4 < x < 7$ B) $4 < x < 11$ C) $7 < x < 11$
D) $3 < x < 11$ E) $5 < x < 10$

9.

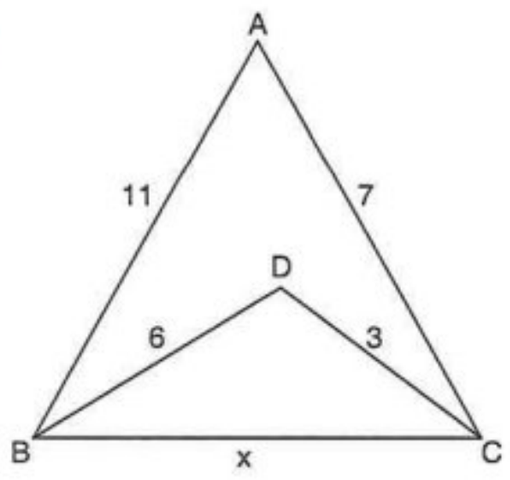


$x \in R$
$m(\widehat{A}) > m(\widehat{C})$
$|AB| = 9\,br$
$|AC| = 14\,br$
$|BC| = 2x - 1\,br$

⇒ **x'in tanım aralığı nedir?**
(What is the definition range of x = ?)

A) (3, 12) B) [3, 12) C) (5, 12)
D) (4, 12) E) (6, 12)

10.

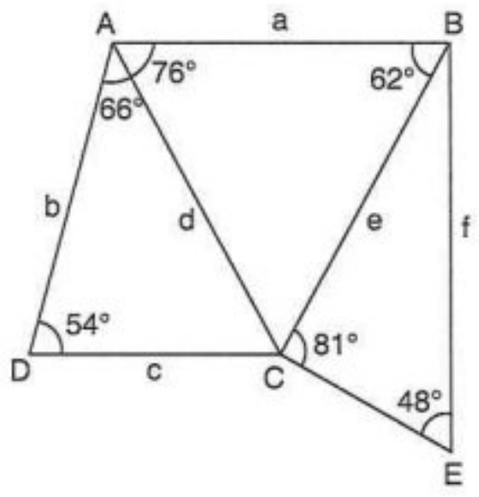


$x \in R$
$|AB| = 11\,br$
$|AC| = 7\,br$
$|BD| = 6\,br$
$|DC| = 3\,br$

⇒ **x'in tanım aralığı nedir?**
(What is the definition range of x = ?)

A) (4, 18) B) (3, 18) C) (10, 17)
D) (6, 11) E) (4, 9)

11.

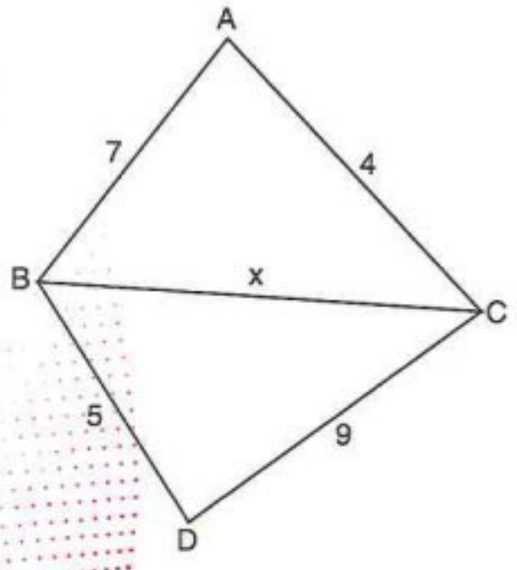


$m(\widehat{ADC}) = 54°$
$m(\widehat{DAC}) = 66°$
$m(\widehat{BCE}) = 81°$
$m(\widehat{BEC}) = 48°$
$m(\widehat{CAB}) = 76°$
$m(\widehat{CBA}) = 62°$

⇒ **En Kısa Kenar hangisidir?**
(Which side is the shortest?)

A) b B) c C) d D) e E) a

12.



$x \in R$
$|AB| = 7\,br$
$|AC| = 4\,br$
$|BD| = 5\,br$
$|DC| = 9\,br$

⇒ **x'in tanım aralığı nedir?**
(What is the definition range of x = ?)

A) (3, 11) B) (4, 14) C) (3, 14)
D) (4, 11) E) (9, 16)

1. C	2. A	3. B	4. A	5. B	6. D
7. C	8. D	9. C	10. E	11. E	12. D

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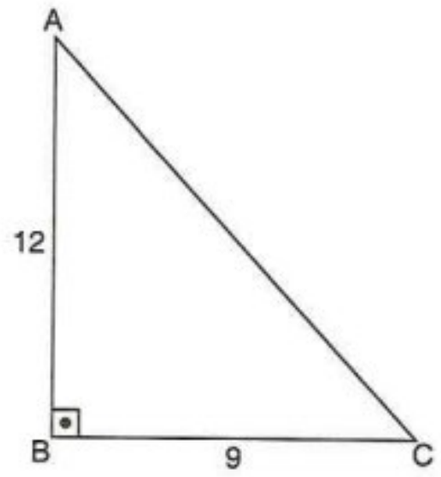
1.



$[AB] \perp [BC]$

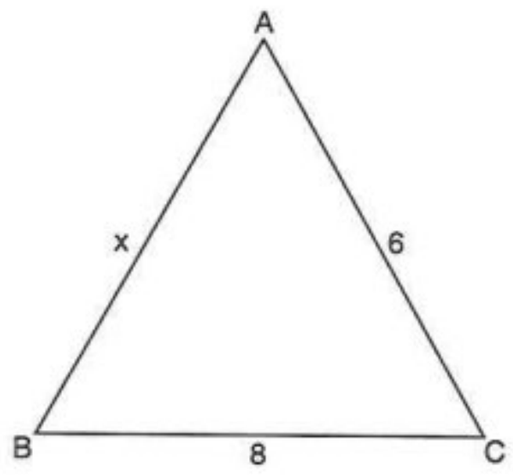
$|AB| = 12$ br

$|BC| = 9$ br

⇒ $|AC| = ?$

A) 15 B) 16 C) 18 D) 20 E) 24

2.



$x \in Z$

$m(\widehat{C}) < 90°$

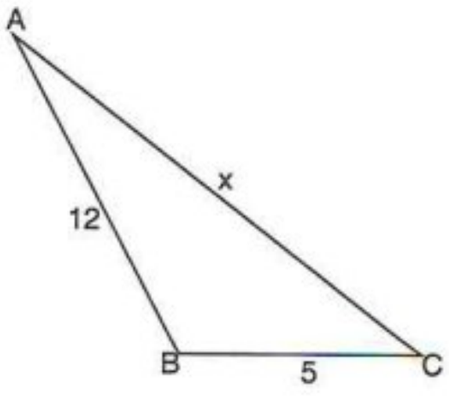
$|AC| = 6$ br

$|BC| = 8$ br

⇒ $\sum x = ?$

A) 86 B) 72 C) 66 D) 54 E) 42

3.



$x \in R$

$m(\widehat{B}) > 90°$

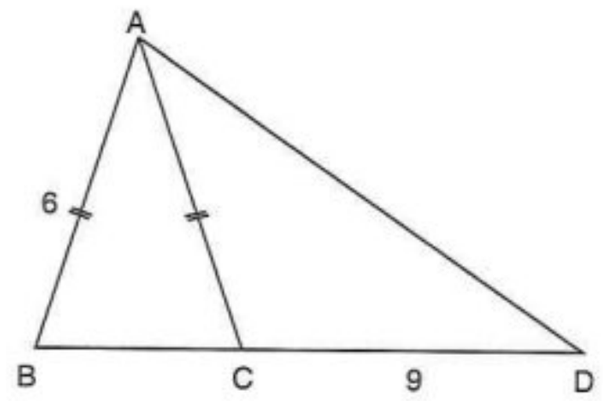
$|AB| = 12$ br

$|BC| = 5$ br

⇒ **x'in tanım aralığı nedir?**
(What is the definition range of x = ?)

A) $7 < x < 17$ B) $12 < x < 17$ C) $13 < x < 20$
D) $13 < x < 17$ E) $5 < x < 17$

4.



$|AD| \in Z$

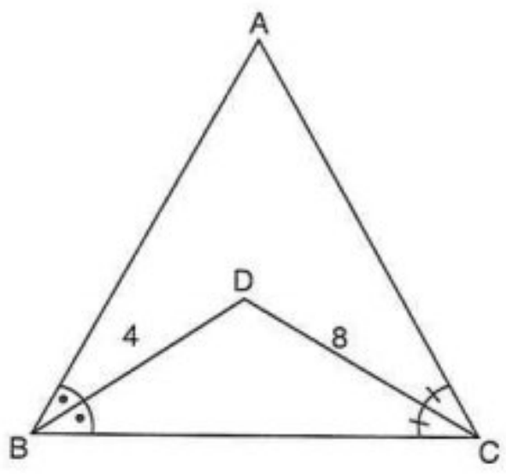
$|AB| = |AC| = 6$ br

$|DC| = 9$ br

⇒ **min $|AD|$ = ?**

A) 9 B) 10 C) 11 D) 12 E) 13

5.



$|BC| \in Z$

$m(\widehat{ABD}) = m(\widehat{DBC})$

$m(\widehat{ACD}) = m(\widehat{DCB})$

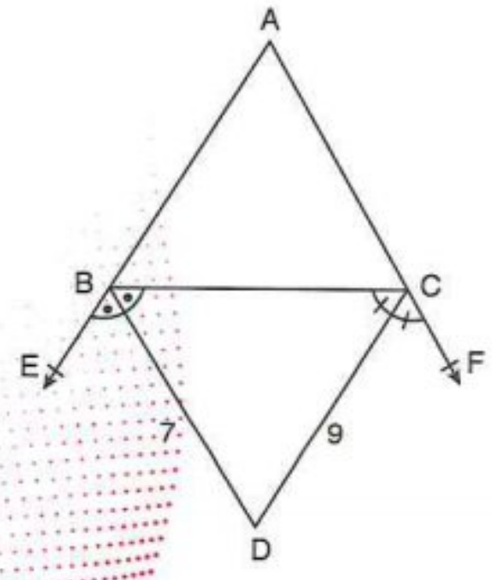
$|BD| = 4$ br

$|DC| = 8$ br

⇒ **min $|BC|$ = ?**

A) 5 B) 6 C) 7 D) 8 E) 9

6.



$|BC| \in Z$

$m(\widehat{EBD}) = m(\widehat{DBC})$

$m(\widehat{BCD}) = m(\widehat{DCF})$

$|BD| = 7$ br

$|DC| = 9$ br

⇒ **max $|BC|$ = ?**

A) 11 B) 12 C) 13 D) 14 E) 15

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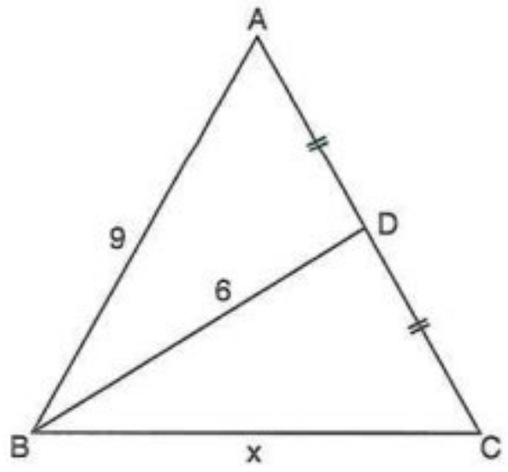
7.



$x \in Z$

$|AB| = 9$ br

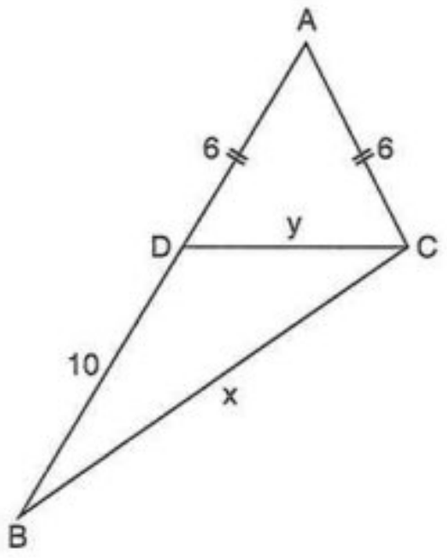
$|BD| = 6$ br

$|AD| = |DC|$

⇒ **max(x) + min(x) = ?**

A) 21 B) 22 C) 23 D) 24 E) 25

8.



$x \in Z$

$|AD| = |AC| = 6$ br

$|BD| = 10$ br

$|BC| = x$ br

$|DC| = y$ br

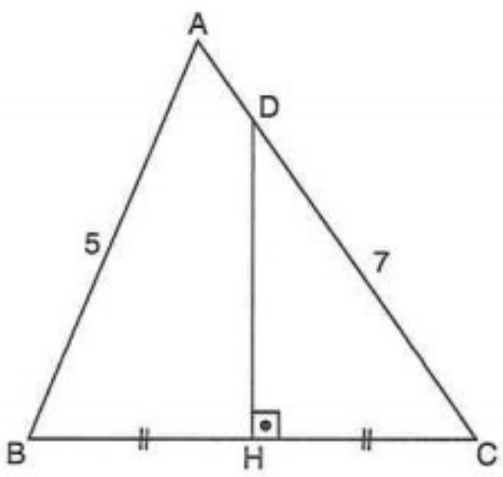
max(y) için

(*for* max(y))

⇒ **min (x) = ?**

A) 15 B) 16 C) 17 D) 18 E) 19

9.



$[DH] \perp [BC]$

$|BH| = |HC|$

$m(\widehat{BAC}) > 90°$

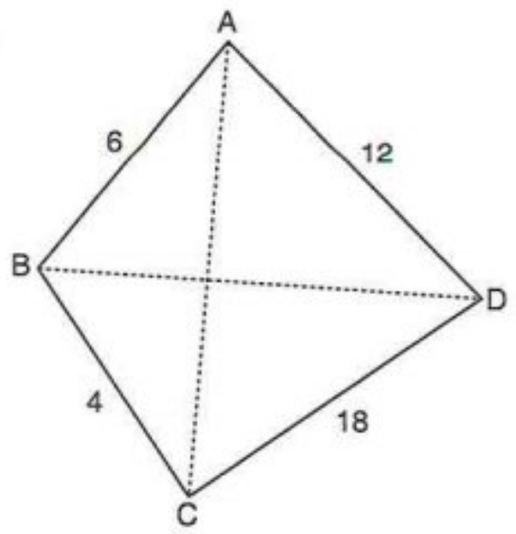
$|AB| = 5$ br

$|DC| = 7$ br

⇒ **max|AD| = ?**

A) 2 B) 3 C) 4 D) 5 E) 6

10.



$|BC| = 4$ br

$|AB| = 6$ br

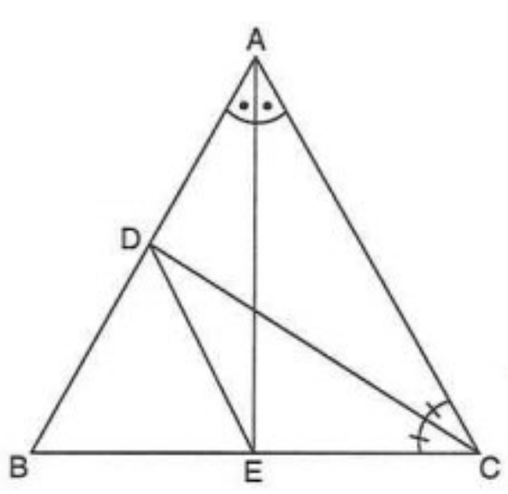
$|AD| = 12$ br

$|CD| = 18$ br

⇒ **min (|AC|+|BD|) = ?**

A) 20 B) 21 C) 22 D) 23 E) 24

11.



[AE], [CD] açıortay (bisector)

$(|AE|+|CD|) \in Z$

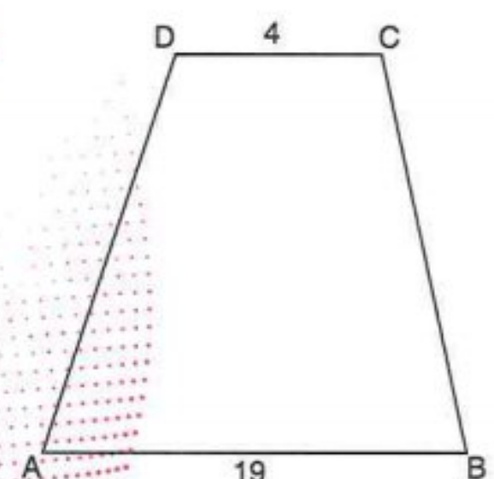
$[DE] \parallel [AC]$

$|DE| = 7$ br

⇒ **max (|AE|+|CD|) = ?**

A) 13 B) 15 C) 22 D) 27 E) 29

12.



$[DC] \parallel [AB]$

$|DC| = 4$ br

$|AB| = 19$ br

⇒ **min((Ç(ABCD))= ?**

A) 35 B) 36 C) 37 D) 38 E) 39

1. A	2. E	3. D	4. C	5. E	6. A
7. D	8. B	9. C	10. B	11. D	12. E

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ÜÇGENDE BENZERLİK

TRIANGLE SMILARITIES

KONU KAVRAMA TESTİ
Thread Grip Test

ZİHİN HARİTASI
Mind Map

9
TEST
Tests

168
SORU
Questions

ANER YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS

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ÜÇGENDE BENZERLİK
TRIANGLE SMILARITIES

CANER eğitim kurumları

1.

$\widehat{ABC} \sim \widehat{EFD}$

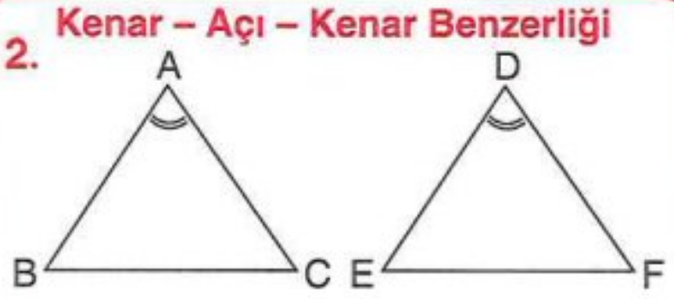
$m(\widehat{A}) = m(\widehat{E})$
$m(\widehat{B}) = m(\widehat{F})$
$m(\widehat{C}) = m(\widehat{D})$

$\frac{|AB|}{|EF|} = \frac{|AC|}{|ED|} = \frac{|BC|}{|DF|} = k$

$k = 1 \Rightarrow$ Üçgenler eştir.

Kenar – Açı – Kenar Benzerliği

2.

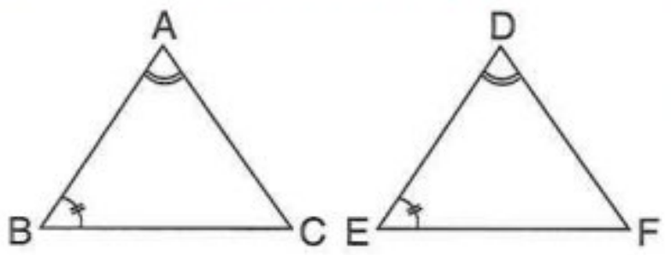


$\frac{|AB|}{|DE|} = \frac{|AC|}{|DF|} = k \Rightarrow \widehat{ABC} \sim \widehat{DEF}$

$m(\widehat{A}) = m(\widehat{D})$

$\frac{Ç(ABC)}{Ç(DEF)} = k \qquad \frac{A(ABC)}{A(DEF)} = k^2$

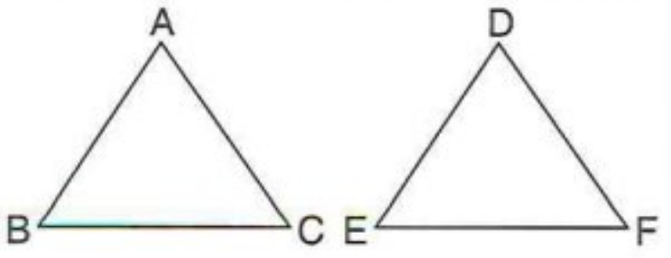
3. **Açı – Açı Benzerliği**



$m(\widehat{A}) = m(\widehat{D})$
$m(\widehat{B}) = m(\widehat{E})$

$\Rightarrow \widehat{ABC} \sim \widehat{DEF}$

4. Kenar – Kenar – Kenar Benzerliği



$\frac{|AB|}{|DE|} = \frac{|AC|}{|DF|} = \frac{|BC|}{|EF|} = k$

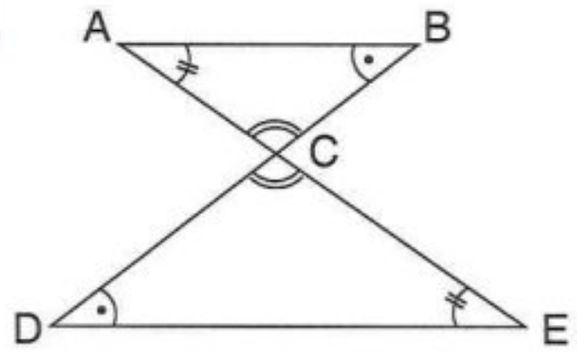
$\Rightarrow \widehat{ABC} \sim \widehat{DEF}$

5.

$[DE] \,//\, [BC]$

$\frac{|AD|}{|AB|} = \frac{|AE|}{|AC|} = \frac{|DE|}{|BC|} \qquad \frac{|AD|}{|BD|} = \frac{|AE|}{|EC|}$

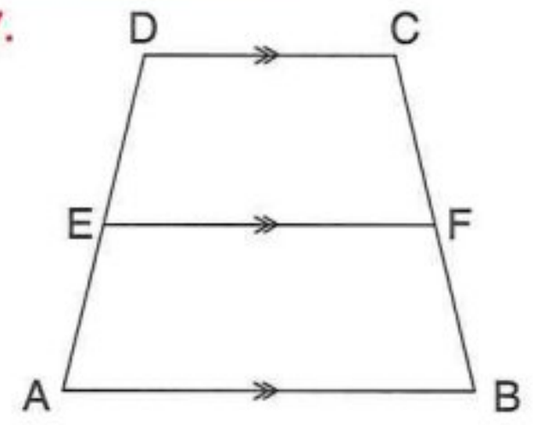
6.



$[AB] \,//\, [DE] \qquad \widehat{ABC} \sim \widehat{EDC}$

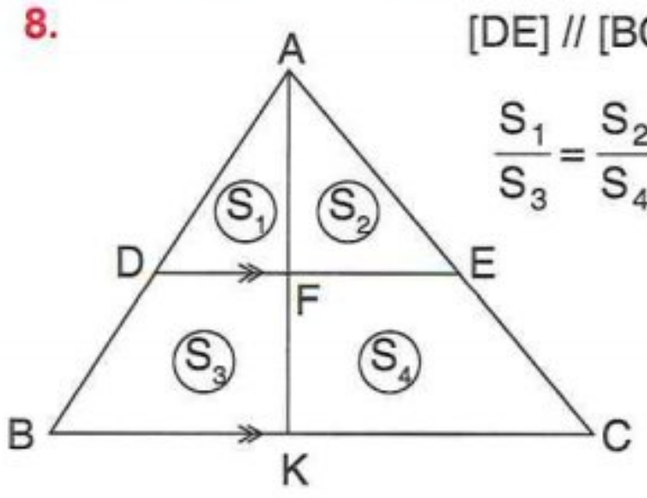
$\frac{|AB|}{|ED|} = \frac{|BC|}{|DC|} = \frac{|AC|}{|EC|} = k$

7.



$[DC] \,//\, [EF] \,//\, [AB] \qquad \frac{|DE|}{|CF|} = \frac{|AE|}{|BF|}$

8.



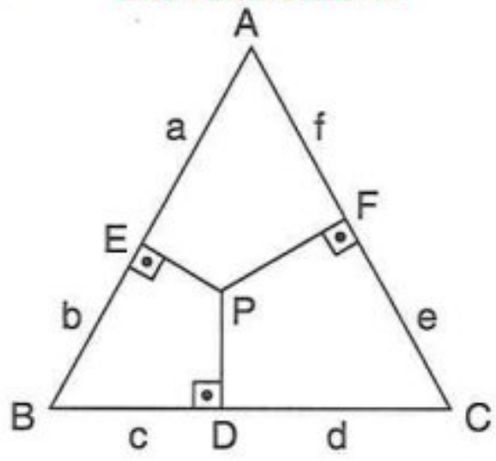
$[DE] \,//\, [BC]$

$\frac{S_1}{S_3} = \frac{S_2}{S_4}$

9. **Menelaus Teoremi**

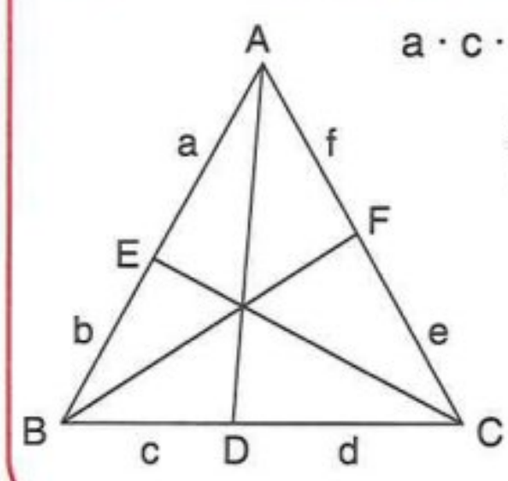
$\frac{|DB|}{|DC|} \cdot \frac{|CF|}{|FA|} \cdot \frac{|AE|}{|EB|} = 1$

10. **Carnot Teoremi**



$a^2 + c^2 + e^2 = b^2 + d^2 + f^2$

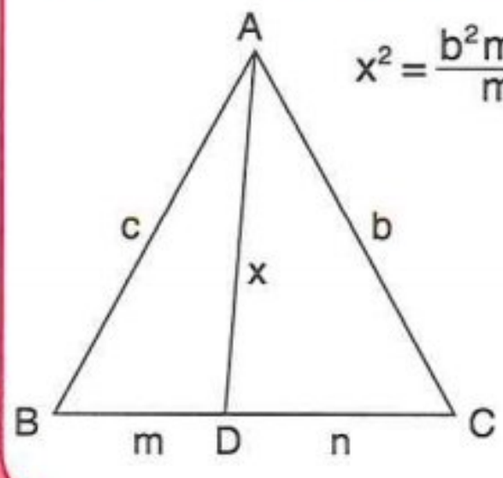
11. **Seva Teoremi**



$a \cdot c \cdot e = b \cdot d \cdot f$

$\frac{a}{b} \cdot \frac{c}{d} \cdot \frac{e}{f} = 1$

12. **Stewart Teoremi**



$x^2 = \frac{b^2 m + c^2 n}{m+n} - m \cdot n$

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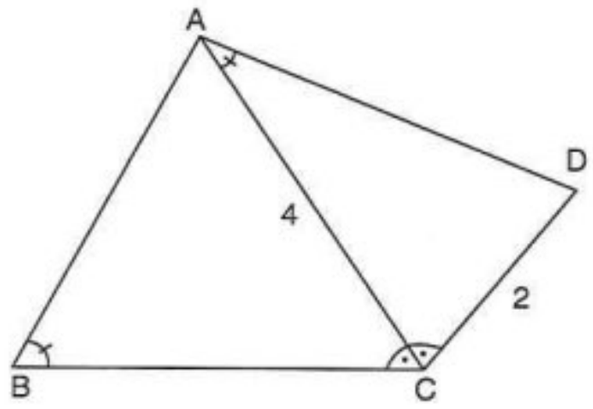
1.

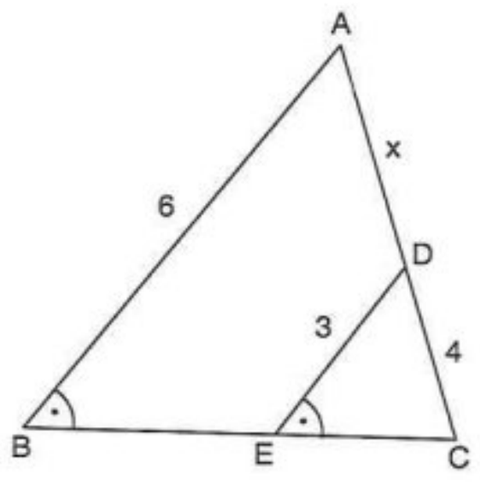


$m(D\widehat{C}A) = m(A\widehat{C}B)$
$m(A\widehat{B}C) = m(C\widehat{A}D)$
$|DC| = 2\,br$
$|AC| = 4\,br$

$\Rightarrow |\mathbf{BC}| = ?$

A) 4 B) 6 C) 8 D) 10 E) 12

2.

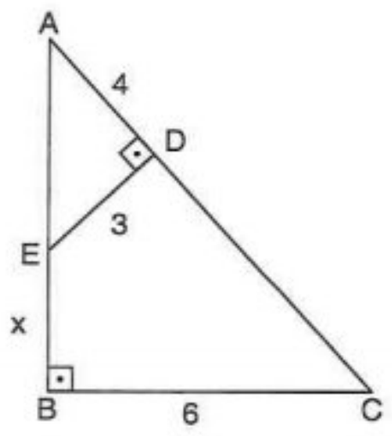


$m(A\widehat{B}C) = m(D\widehat{E}C)$
$|AB| = 6\,br$
$|DC| = 4\,br$
$|DE| = 3\,br$

$\Rightarrow |\mathbf{AD}| = \mathbf{x} = ?$

A) 3 B) 4 C) 6 D) 8 E) 10

3.

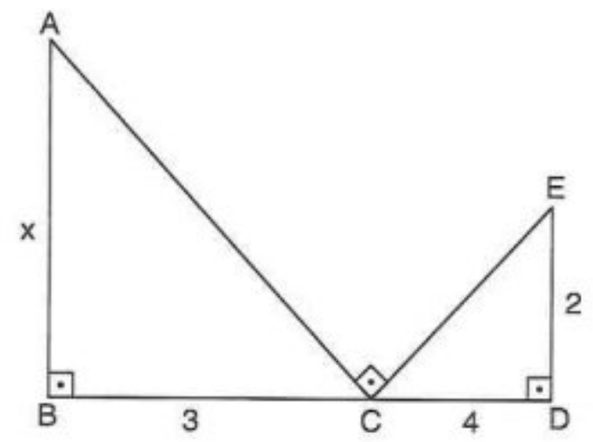


$[AB] \perp [BC]$
$[ED] \perp [AC]$
$|ED| = 3\,br$
$|AD| = 4\,br$
$|BC| = 6\,br$

$\Rightarrow |\mathbf{EB}| = \mathbf{x} = ?$

A) 3 B) 4 C) 5 D) 6 E) 7

4.

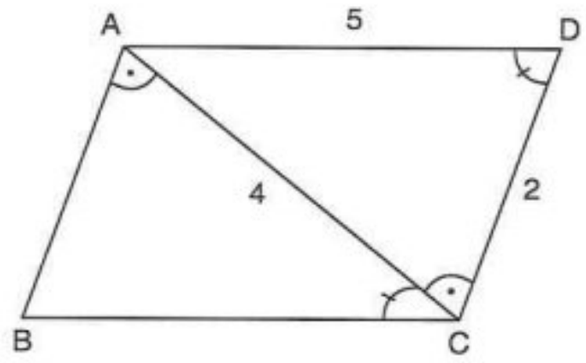


$[AB] \perp [BD]$
$[ED] \perp [BD]$
$[AC] \perp [CE]$
$|ED| = 2\,br$
$|BC| = 3\,br$
$|CD| = 4\,br$

$\Rightarrow |\mathbf{AB}| = \mathbf{x} = ?$

A) $\frac{1}{2}$ B) 3 C) $\frac{9}{2}$ D) 6 E) 8

5.

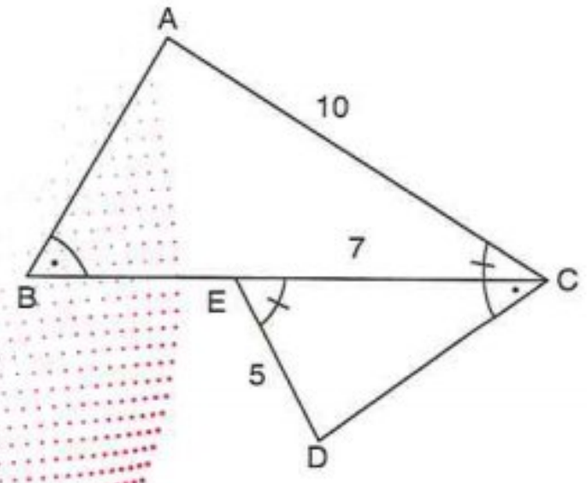


$m(B\widehat{A}C) = m(A\widehat{C}D)$
$m(A\widehat{C}B) = m(A\widehat{D}C)$
$|AD| = 5\,br$
$|AC| = 4\,br$
$|DC| = 2\,br$

$\Rightarrow |\mathbf{BC}| = ?$

A) 6 B) 8 C) 10 D) 12 E) 15

6.



$m(A\widehat{B}C) = m(E\widehat{C}D)$
$m(A\widehat{C}B) = m(C\widehat{E}D)$
$|AC| = 10\,br$
$|EC| = 7\,br$
$|ED| = 5\,br$

$\Rightarrow |\mathbf{BE}| = ?$

A) 5 B) 7 C) 10 D) 12 E) 14

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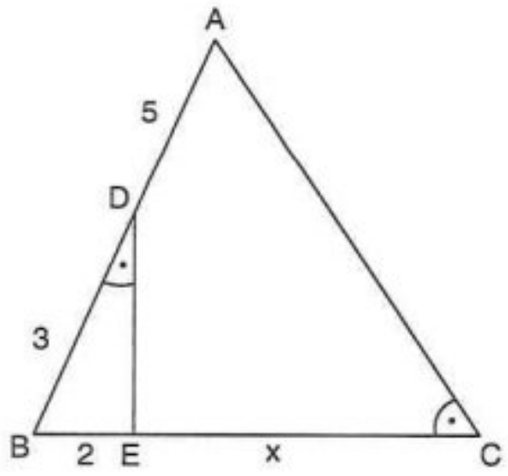
7.

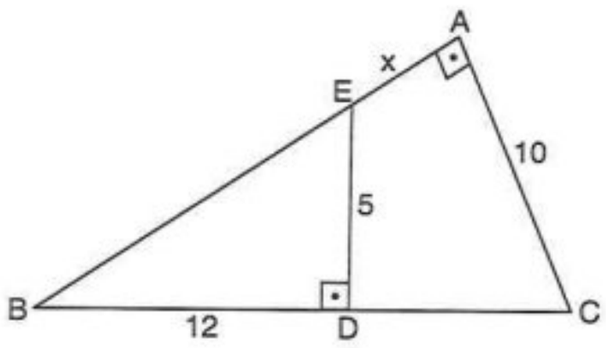


$m(\widehat{BDE}) = m(\widehat{ACB})$
$|BE| = 2$ br
$|BD| = 3$ br
$|AD| = 5$ br

⇒ $|EC| = x = ?$

A) 8 B) 10 C) 12 D) 14 E) 16

8.

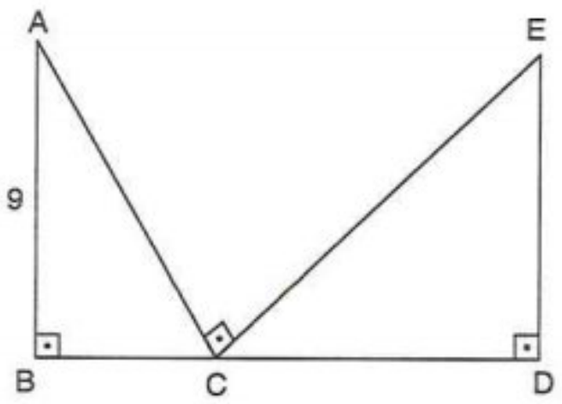


$[AB] \perp [AC]$
$[ED] \perp [BC]$
$|BD| = 12$ br
$|AC| = 10$ br
$|ED| = 5$ br

⇒ $|AE| = x = ?$

A) 10 B) 11 C) 12 D) 13 E) 15

9.

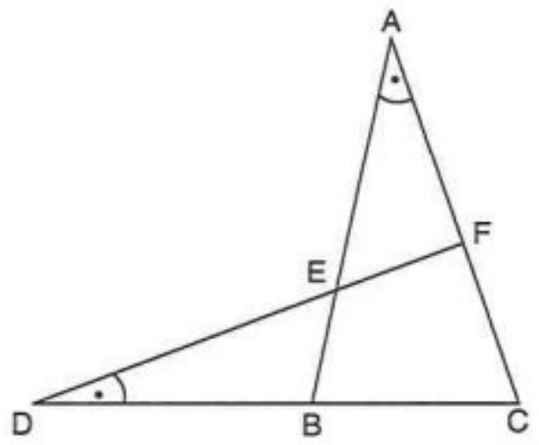


$[AB] \perp [BD]$
$[ED] \perp [BD]$
$[AC] \perp [CE]$
$4|AC| = 3|EC|$
$|AB| = 9$ br

⇒ $|CD| = ?$

A) 9 B) 10 C) 12 D) 15 E) 18

10.

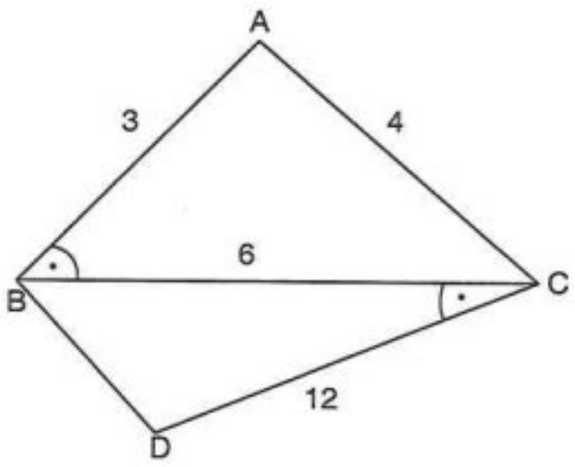


$m(\widehat{BAC}) = m(\widehat{FDC})$
$3|CF| = 2|BC|$
$|DF| = 10$ br

⇒ $|AB| = ?$

A) 10 B) 12 C) 15 D) 18 E) 20

11.

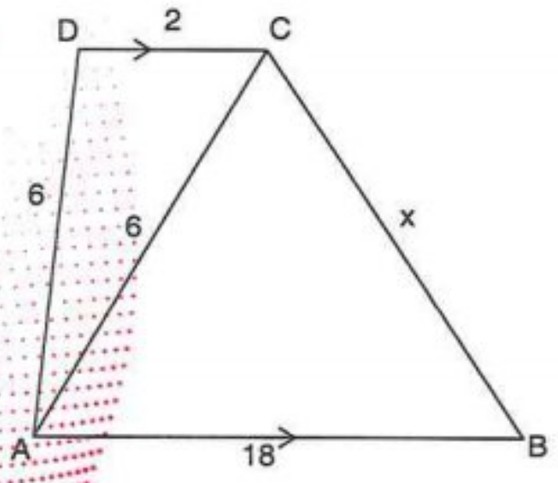


$m(\widehat{ABC}) = m(\widehat{BCD})$
$|DC| = 12$ br
$|BC| = 6$ br
$|AC| = 4$ br
$|AB| = 3$ br

⇒ $|BD| = ?$

A) 4 B) 6 C) 8 D) 9 E) 12

12.



$[AB] \parallel [CD]$
$|AB| = 18$ br
$|AD| = |AC| = 6$ br
$|DC| = 2$ br

⇒ $|BC| = x = ?$

A) 6 B) 12 C) 15 D) 18 E) 24

1. C	2. B	3. A	4. D	5. C	6. B
7. B	8. B	9. C	10. C	11. C	12. D

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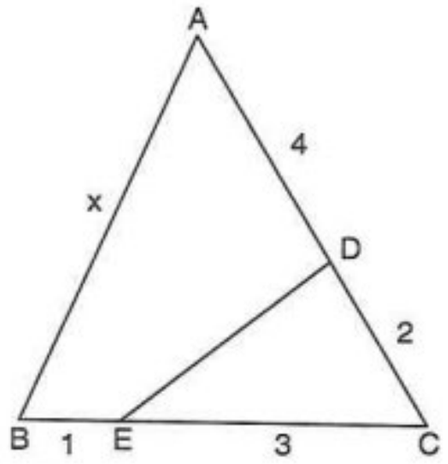
13.

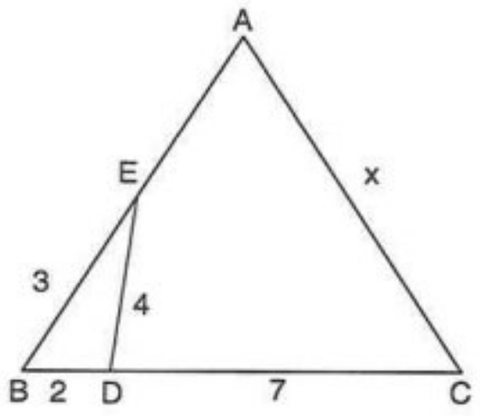


$|AD| = |ED| = 4\,br$
$|EC| = 3\,br$
$|DC| = 2\,br$
$|BE| = 1\,br$

$\Rightarrow |\mathbf{AB}| = \mathbf{x} = ?$

A) 4 B) 6 C) 8 D) 10 E) 12

14.

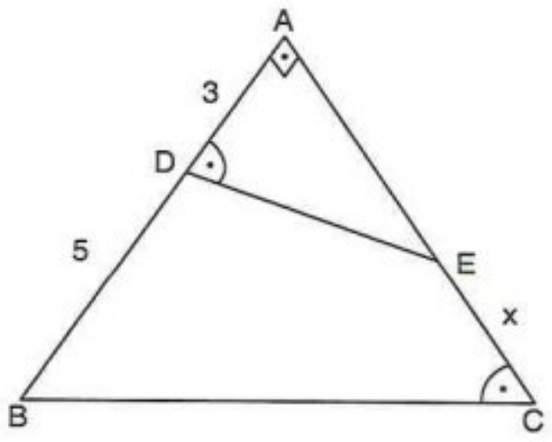


$|DC| = 7\,br$
$|ED| = 4\,br$
$|AE| = |EB| = 3\,br$
$|BD| = 2\,br$

$\Rightarrow |\mathbf{AC}| = \mathbf{x} = ?$

A) 4 B) 6 C) 8 D) 10 E) 12

15.

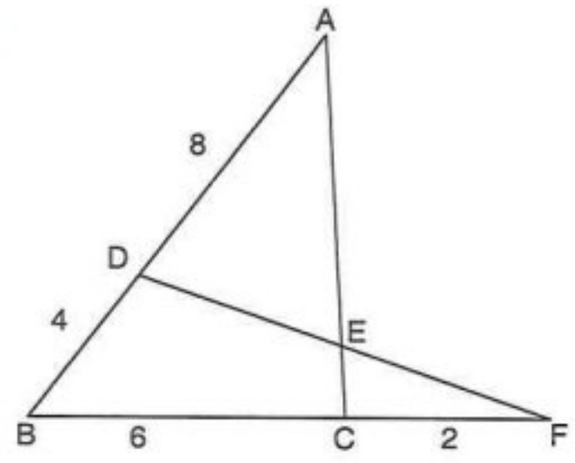


$[AB] \perp [AC]$
$m(\widehat{ADE}) = m(\widehat{ACB})$
$|BD| = |DE| = 5\,br$
$|AD| = 3\,br$

$\Rightarrow |\mathbf{EC}| = \mathbf{x} = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

16.

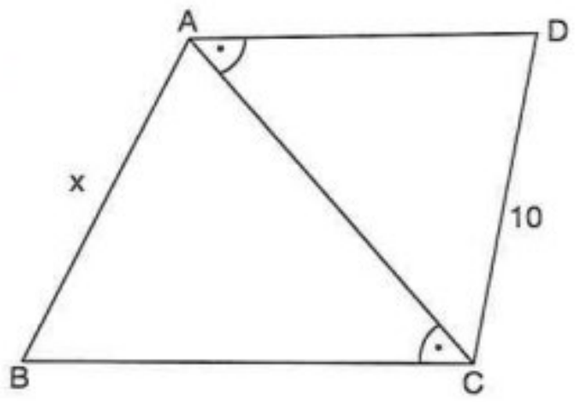


$|DF| = 11\,br$
$|AD| = 8\,br$
$|BC| = 6\,br$
$|DB| = 4\,br$
$|CF| = 2\,br$

$\Rightarrow |\mathbf{AC}| = ?$

A) 11 B) 22 C) $\frac{33}{2}$ D) 33 E) 64

17.

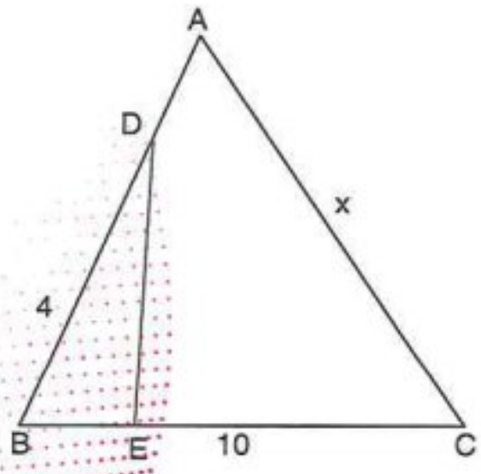


$m(\widehat{DAC}) = m(\widehat{ACB})$
$9|AD| = 3|AC| = |BC|$
$|DC| = 10\,br$

$\Rightarrow |\mathbf{AB}| = \mathbf{x} = ?$

A) 10 B) 15 C) 20 D) 30 E) 40

18.



$2|AD| = 2|BE| = |DB| = 4\,br$
$2|DE| = |EC| = 10\,br$

$\Rightarrow |\mathbf{AC}| = \mathbf{x} = ?$

A) 10 B) 12 C) 15 D) 18 E) 20

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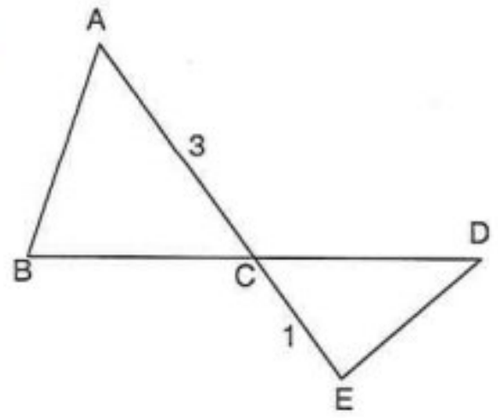
19.

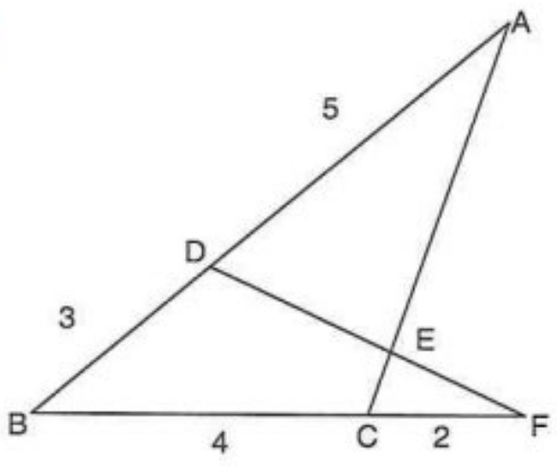


$|AC| = |CD| = |ED| = 3\,br$
$|CE| = 1\,br$
$|BD| = 12\,br$

$\Rightarrow$ **$|AB| = ?$**

A) 3 B) 6 C) 9 D) 12 E) 15

20.

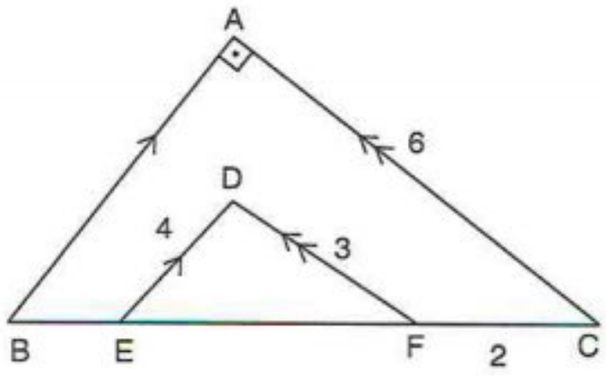


$|CF| = 2\,br$
$|BD| = 3\,br$
$|BC| = 4\,br$
$|AD| = 5\,br$
$|DF| = 8\,br$

$\Rightarrow$ **$|AC| = ?$**

A) $\frac{32}{3}$ B) $\frac{24}{5}$ C) 12 D) $\frac{48}{7}$ E) 16

21.

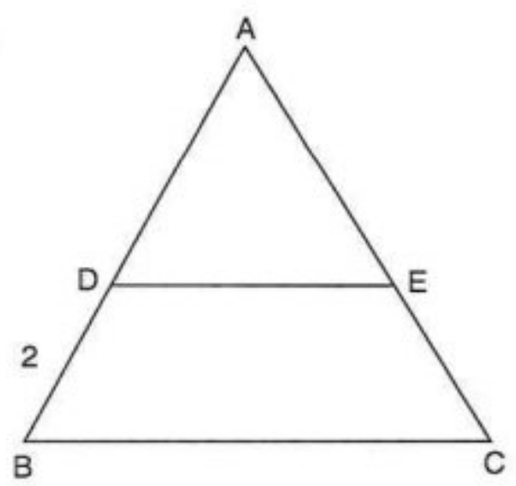


$[AB] \perp [AC]$
$[DE] \parallel [AB]$
$[DF] \parallel [AC]$
$|AC| = 6\,br$
$|DE| = 4\,br$
$|DF| = 3\,br$
$|FC| = 2\,br$

$\Rightarrow$ **$|BE| = ?$**

A) 2 B) 3 C) 4 D) 5 E) 6

22.

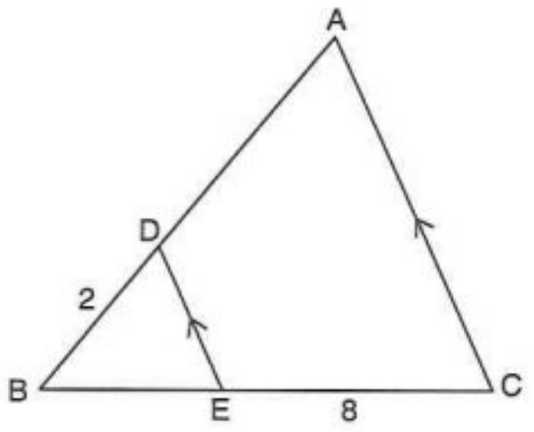


$[DE] \parallel [BC]$
$|AE| = 2|AD| = 6$
$|BD| = 2$

$\Rightarrow$ **$|EC| = ?$**

A) 2 B) 3 C) 4 D) 6 E) 8

23.

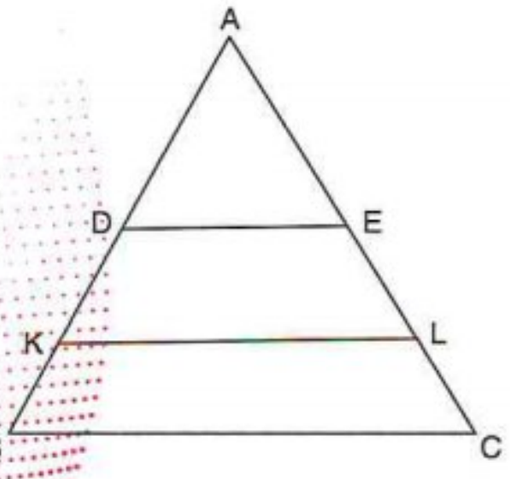


$[DE] \parallel [AC]$
$|BD| = 2\,br$
$|EC| = 8\,br$

$\Rightarrow$ **$|AD| . |BE| = ?$**

A) 2 B) 4 C) 8 D) 12 E) 16

24.



$[DE] \parallel [KL] \parallel [BC]$
$2|AD| = 3|DK| = 6|KB|$
$|AE| = 9\,br$

$\Rightarrow$ **$|EL| - |LC| = ?$**

A) 2 B) 3 C) 4 D) 6 E) 9

13. C	14. E	15. A	16. C	17. D	18. C
19. C	20. A	21. B	22. C	23. E	24. B

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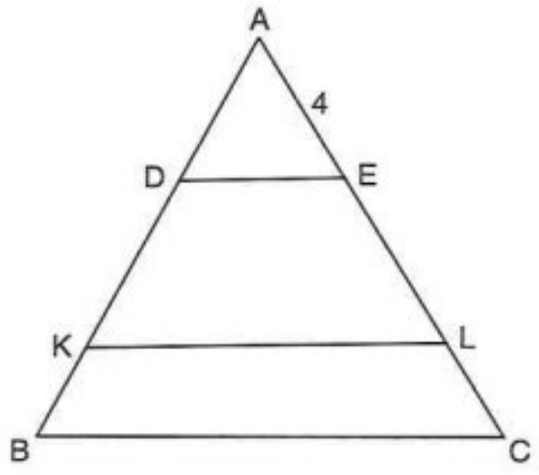
25.

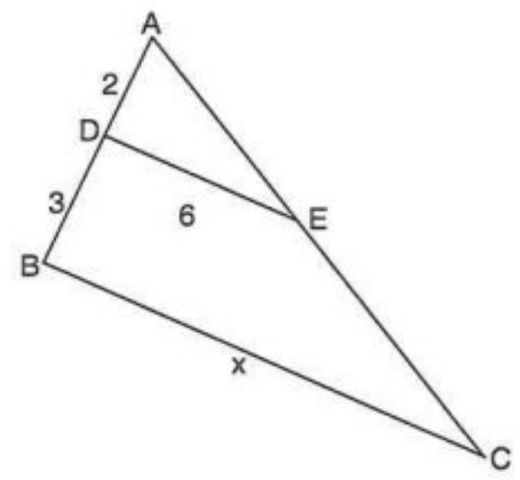


[DE] // [KL] // [BC]
3|AD| = 2|DK| = 6|KB|
|AE| = 4 br

⇒ **|EL| − |LC| = ?**

A) 2 B) 4 C) 6 D) 8 E) 10

26.

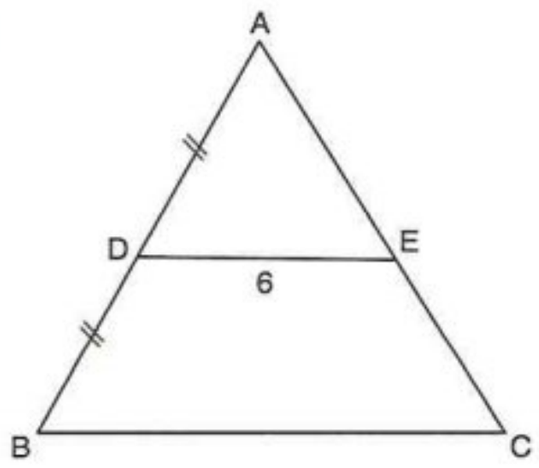


[DE] // [BC]
|AD| = 2 br
|BD| = 3 br
|DE| = 6 br

⇒ **|BC| = x = ?**

A) 9 B) 10 C) 12 D) 15 E) 18

27.

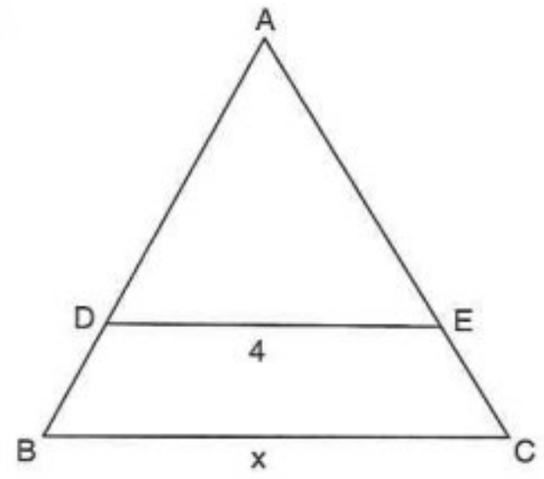


[DE] // [BC]
|AD| = |BD|
|DE| = 6 br

⇒ **|BC| = ?**

A) 8 B) 9 C) 10 D) 12 E) 18

28.

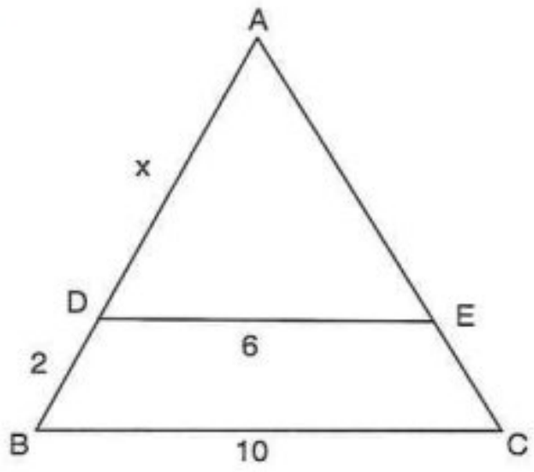


[DE] // [BC]
|AD| = 2|BD|
|DE| = 4 br

⇒ **|BC| = x = ?**

A) 4 B) 6 C) 8 D) 10 E) 12

29.

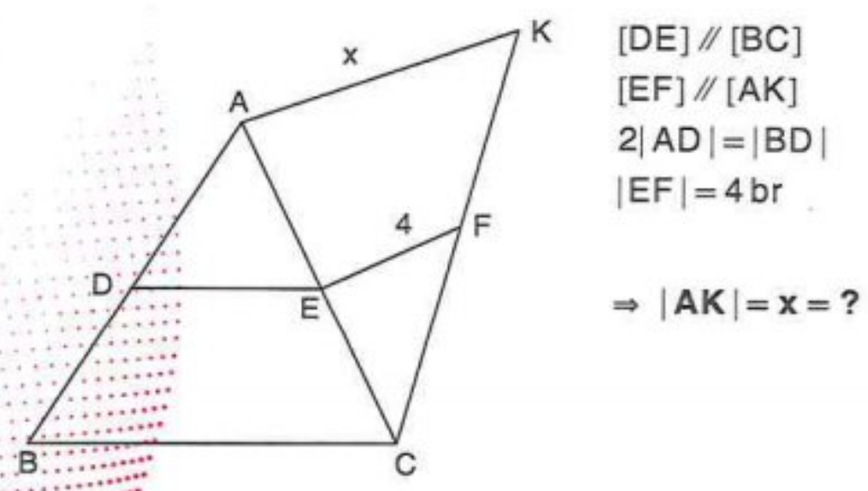


[DE] // [BC]
|BC| = 10 br
|DE| = 6 br
|BD| = 2 br

⇒ **|AD| = x = ?**

A) 3 B) 4 C) 5 D) 6 E) 9

30.



[DE] // [BC]
[EF] // [AK]
2|AD| = |BD|
|EF| = 4 br

⇒ **|AK| = x = ?**

A) 4 B) 6 C) 8 D) 10 E) 12

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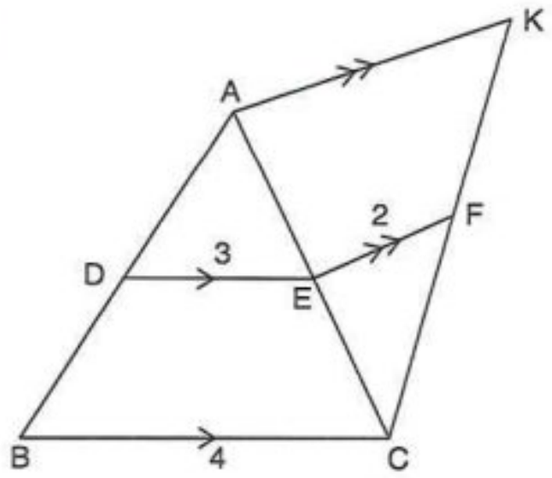
31.

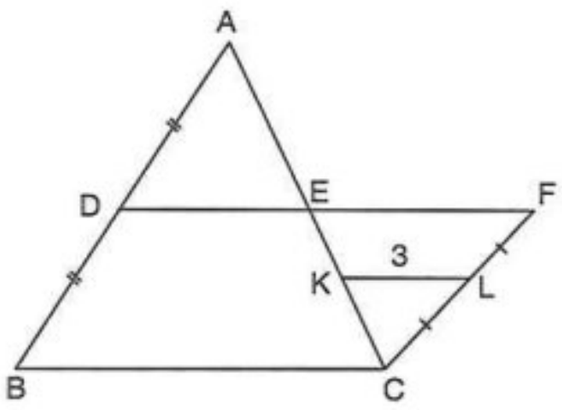


[DE] // [BC]
[EF] // [AK]
|BC| = 4 br
|DE| = 3 br
|EF| = 2 br

⇒ |**AK**| = **x** = **?**

A) 3 B) 4 C) 6 D) 8 E) 10

32.

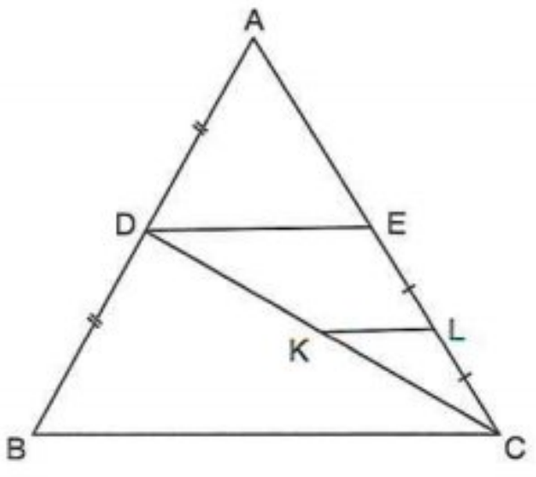


[DF] // [KL] // [BC]
|AD| = |BD|
|FL| = |CL|
|KL| = 3 br
|BC| = 8 br

⇒ |**DF**| = **?**

A) 8 B) 9 C) 10 D) 12 E) 14

33.

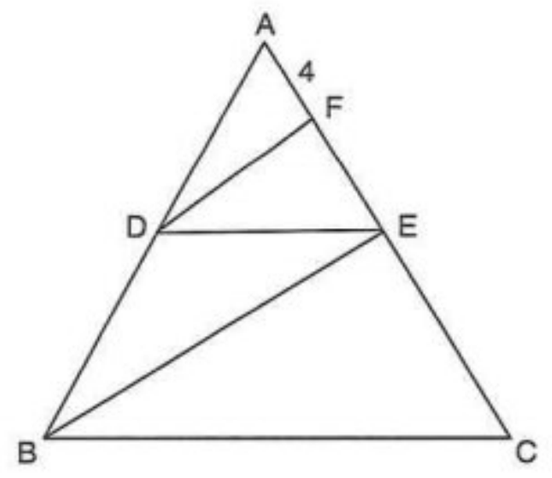


[DE] // [KL] // [BC]
|EL| = |LC|
|AD| = |DB|
|KL| = 2 br

⇒ |**BC**| = **?**

A) 4 B) 6 C) 8 D) 12 E) 16

34.

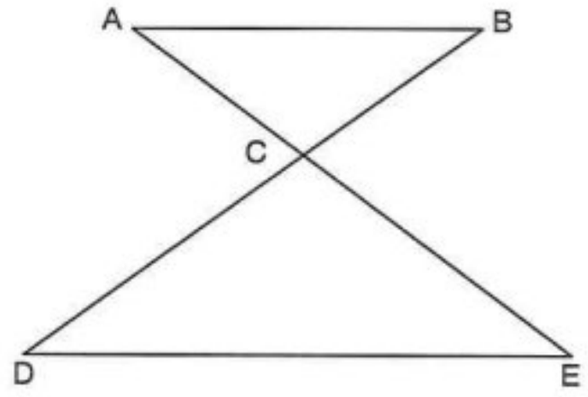


[DE] // [BC]
[DF] // [BE]
|AF| = |FE|
|AF| = 4 br

⇒ |**FC**| = **?**

A) 6 B) 8 C) 12 D) 16 E) 20

35.

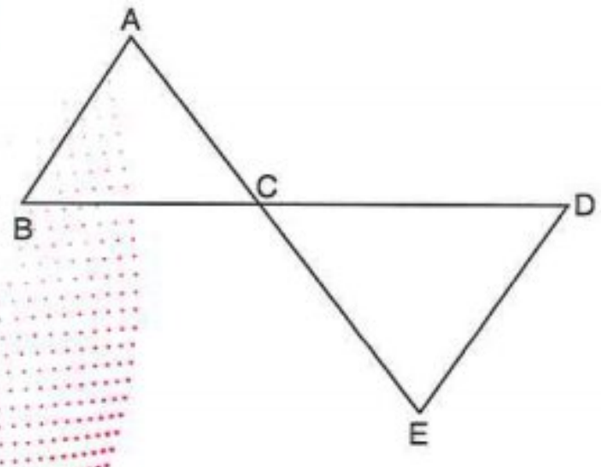


[AB] // [DE]
2|ED| = 3|AB|
|AC| = 4 br

⇒ |**CE**| = **?**

A) 6 B) 8 C) 9 D) 12 E) 15

36.



[AB] // [DE]
7|AC| = 3|AE|
|CD| = 8 br

⇒ |**BC**| = **?**

A) 3 B) 4 C) 6 D) 9 E) 12

25. B	26. D	27. D	28. B	29. A	30. B
31. D	32. C	33. C	34. C	35. A	36. C

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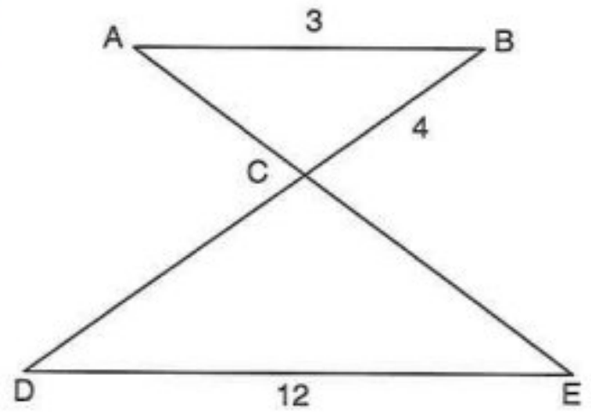
37.

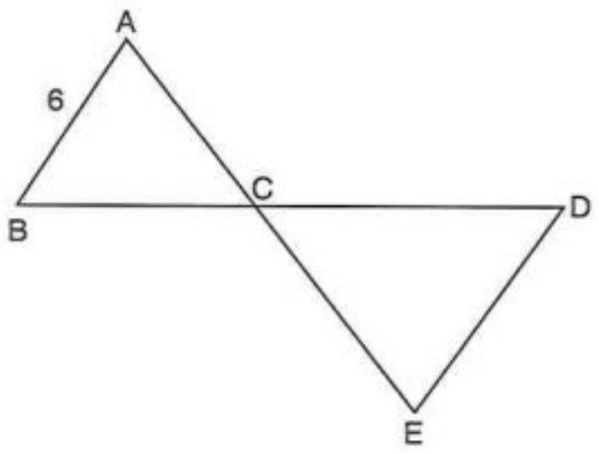


[AB] // [DE]
|AB| = 3 br
|BC| = 4 br
|DE| = 12 br

⇒ |**CD**| = ?

A) 8 B) 9 C) 12 D) 16 E) 18

38.

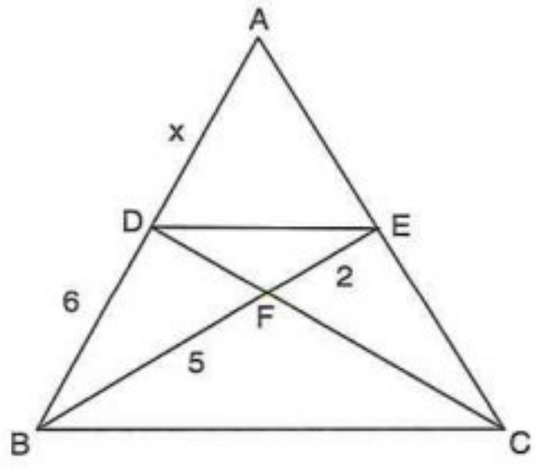


[AB] // [DE]
3|BC| = 2|CD|
|AB| = 6 br

⇒ |**DE**| = ?

A) 4 B) 8 C) 9 D) 12 E) 16

39.

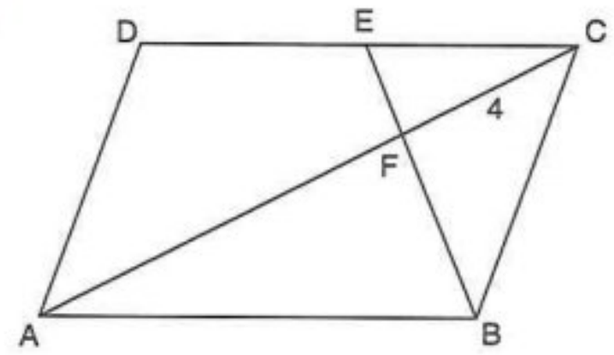


[DE] // [BC]
|EF| = 2 br
|BF| = 5 br
|BD| = 6 br

⇒ |**AD**| = x = ?

A) 4 B) 6 C) 8 D) 10 E) 12

40.

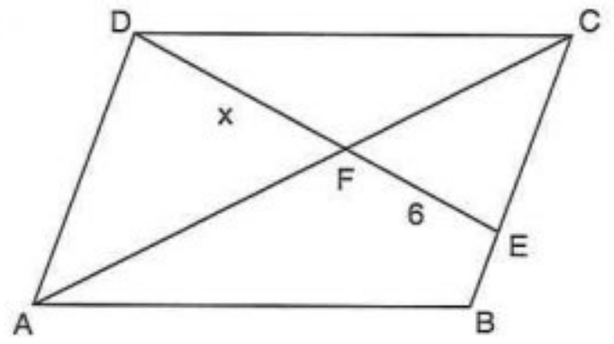


[AB] // [CD]
[AD] // [BC]
|DE| = |EC|
|CF| = 4 br

⇒ |**AF**| = ?

A) 4 B) 6 C) 8 D) 10 E) 12

41.

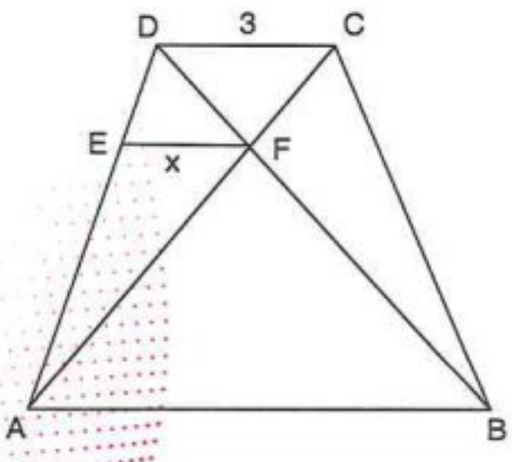


[AB] // [DC]
[AD] // [BC]
|CE| = 3|EB|
|FE| = 6 br

⇒ |**DF**| = x = ?

A) 8 B) 9 C) 10 D) 12 E) 15

42.



[AB] // [EF] // [DC]
|DC| = 3 br
|AB| = 4 br

⇒ |**EF**| = x = ?

A) $\frac{3}{4}$ B) $\frac{4}{3}$ C) $\frac{7}{12}$ D) $\frac{3}{7}$ E) $\frac{12}{7}$

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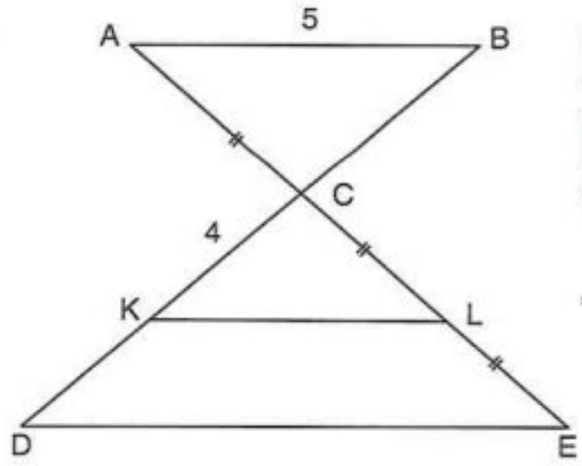
43.

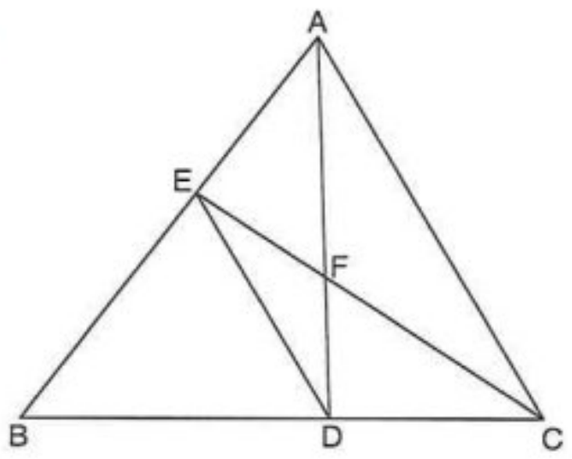


[AB] // [KL] // [DE]
|AC| = |CL| = |LE|
|AB| = 5 br
CK = 4 br

⇒ **|KD| + |KL| + |DE| = ?**

A) 12 B) 15 C) 17 D) 19 E) 21

44.

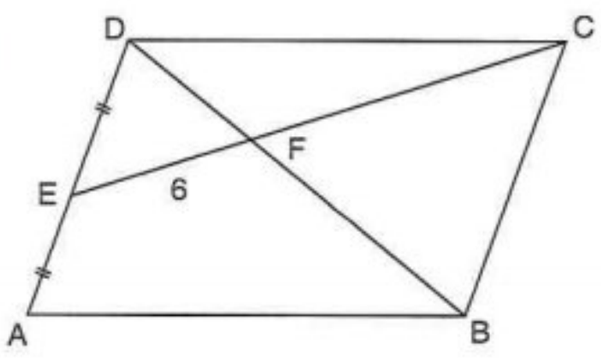


[DE] // [AC]
2|BD| = 3|DC|
|AD| = 16 br

⇒ **|AF| = ?**

A) 6 B) 8 C) 10 D) 12 E) 14

45.

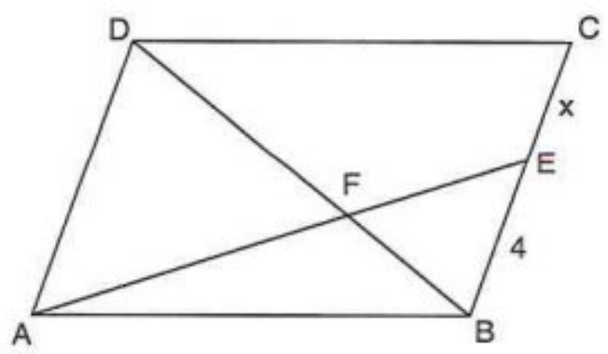


[AB] // [DC]
[AD] // [BC]
|DE| = |AE|
|EF| = 6 br

⇒ **|FC| = ?**

A) 8 B) 9 C) 10 D) 12 E) 15

46.

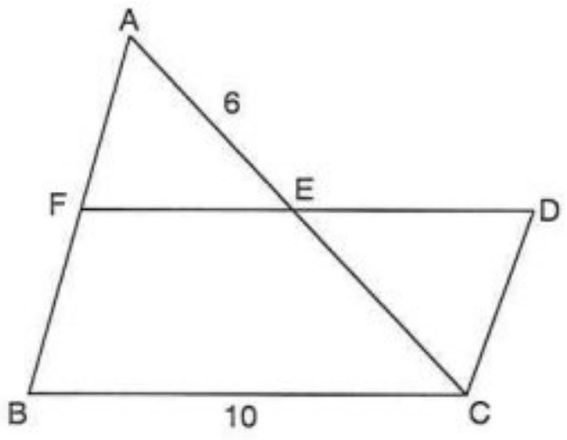


[AB] // [DC]
[AD] // [BC]
4|DF| = 9|BF|
|BE| = 4 br

⇒ **|EC| = ?**

A) 4 B) 5 C) 6 D) 8 E) 9

47.

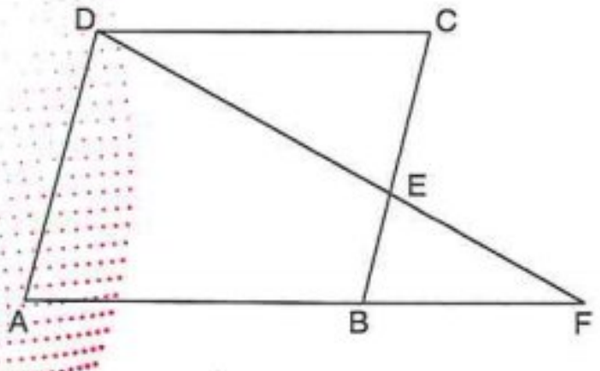


[BC] // [FD]
[AB] // [DC]
|AF| = |BF|
|BC| = 10 br
|AE| = 6 br

⇒ **|EC| − |EF| = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

48.



[AF] // [DC]
3|BF| = 2|AB|
|EB| = 4 br

⇒ **|EC| + |AD| = ?**

A) 6 B) 8 C) 10 D) 12 E) 16

37. D	38. C	39. A	40. C	41. A	42. E
43. D	44. C	45. D	46. B	47. A	48. E

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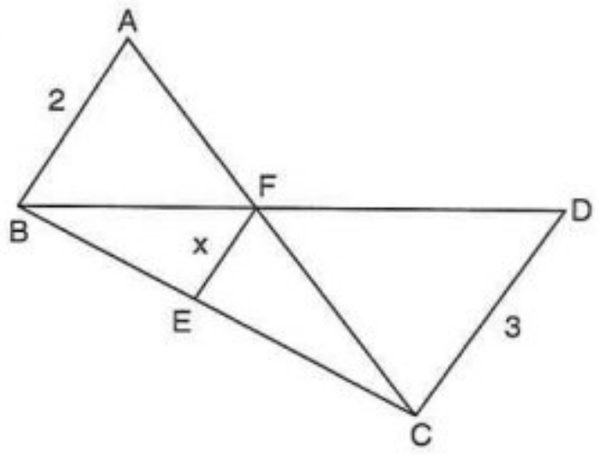
49.

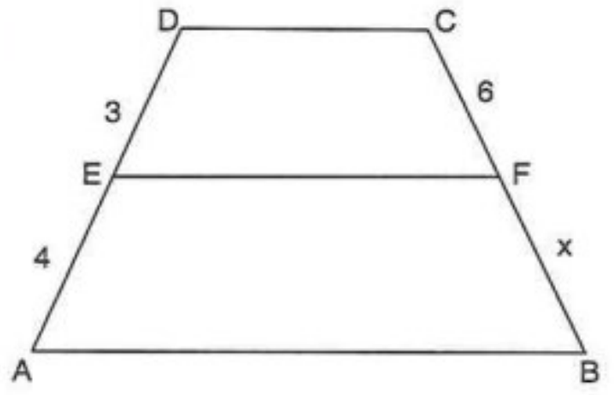


[AB] // [EF] // [CD]
|AB| = 2 br
|CD| = 3 br

⇒ **|EF| = x = ?**

A) $\frac{5}{6}$ B) $\frac{6}{5}$ C) $\frac{3}{7}$ D) $\frac{7}{3}$ E) $\frac{12}{7}$

50.

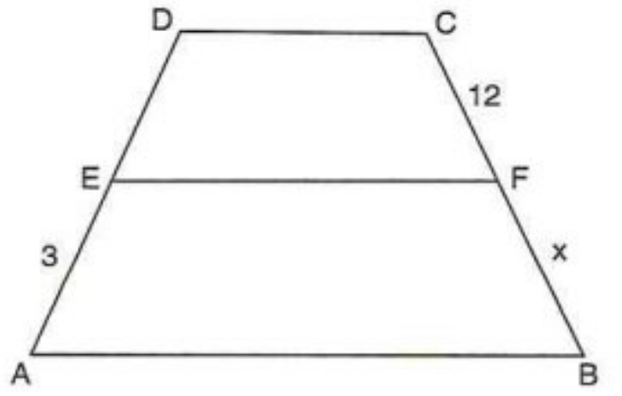


[AB] // [EF] // [DC]
|DE| = 3 br
|AE| = 4 br
|CF| = 6 br

⇒ **|BF| = x = ?**

A) 4 B) 6 C) 8 D) 10 E) 12

51.

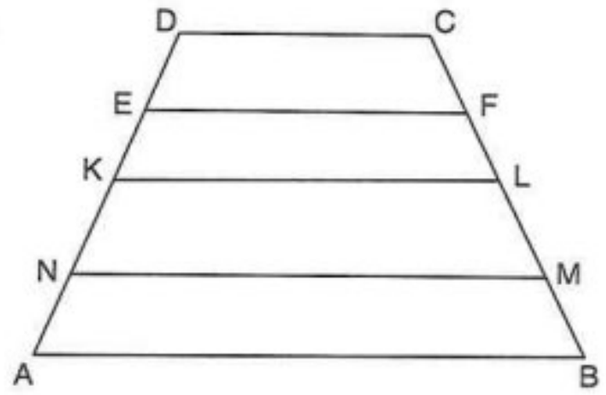


[AB] // [EF] // [DC]
|AE| = 3 br
|CF| = 12 br

⇒
|DE| = |BF| = x = ?

A) 3 B) 4 C) 6 D) 8 E) 9

52.

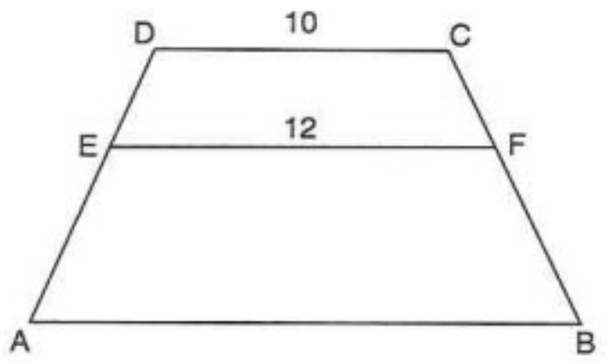


[AB] // [NM] // [KL] // [EF] // [DC]
3|DE| = 6|EK| = 2|KN| = 3|AN|
|CF| = 4 br

⇒ **|BF| = ?**

A) 12 B) 16 C) 18 D) 24 E) 30

53.



[AB] // [EF] // [DC]
2|DE| = |AE|
|DC| = 10 br
|EF| = 12 br

⇒ **|AB| = ?**

A) 14 B) 16 C) 18 D) 20 E) 22

54.

[AB] // [EF] // [DC]
|AE| = |ED|
|DC| = 10 br
|AB| = 16 br

⇒ **|EF| = ?**

A) 11 B) 12 C) 13 D) 14 E) 15

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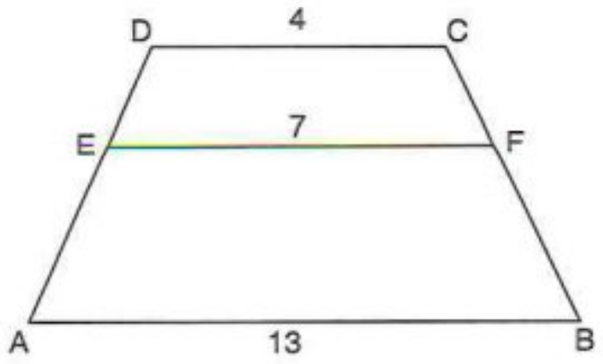
55.



[AB] // [EF] // [DC]
|DE| = 1br
|DC| = 4br
|EF| = 7br
|AB| = 13br

⇒ **|AE| = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

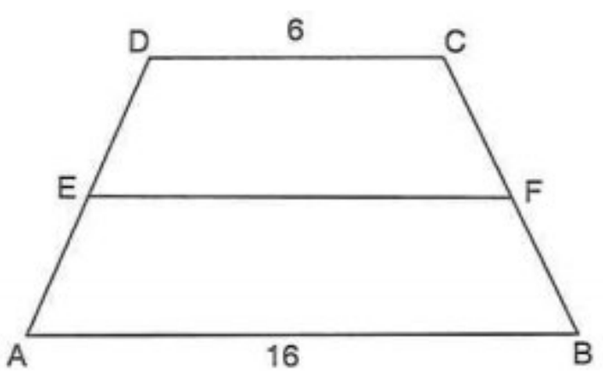
56.

[AB] // [KL] // [EF] // [DL]
|FL| = 2|CF| = 2|LB|
|DC| = 5br
|KL| = 17br

⇒ **|AB| + |EF| = ?**

A) 21 B) 24 C) 28 D) 30 E) 32

57.

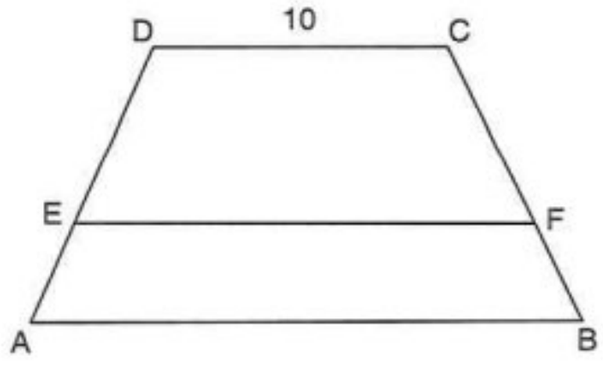


[AB] // [EF] // [DC]
|AE| = |ED|
|AB| = 16br
|DC| = 6br

⇒ **|EF| = ?**

A) 10 B) 11 C) 12 D) 13 E) 14

58.

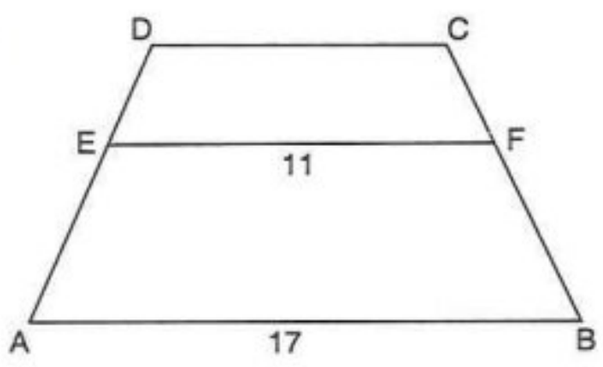


[AB] // [EF] // [DC]
|DE| = 2|AE|
|DC| = 10br
|EF| = 16br

⇒ **|AB| = ?**

A) 18 B) 19 C) 20 D) 21 E) 22

59.

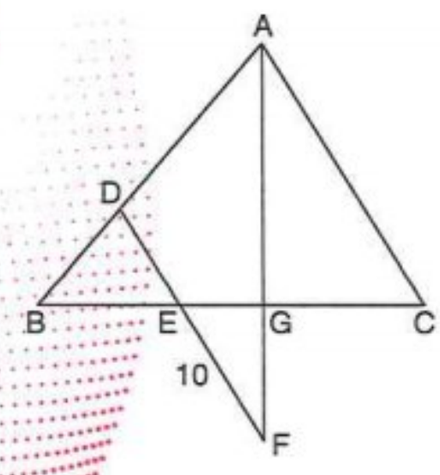


[AB] // [EF] // [DC]
3|ED| = 2|AE|
|AB| = 17br
|EF| = 11br

⇒ **|DC| = ?**

A) 6 B) 7 C) 8 D) 9 E) 10

60.



[DF] // [AC]
|BE| = 2|EG| = |GC|
|EF| = 10br

⇒ **|DE| = ?**

A) 5 B) 6 C) 7 D) 8 E) 9

49. B	50. C	51. C	52. A	53. B	54. C
55. B	56. D	57. B	58. B	59. B	60. D

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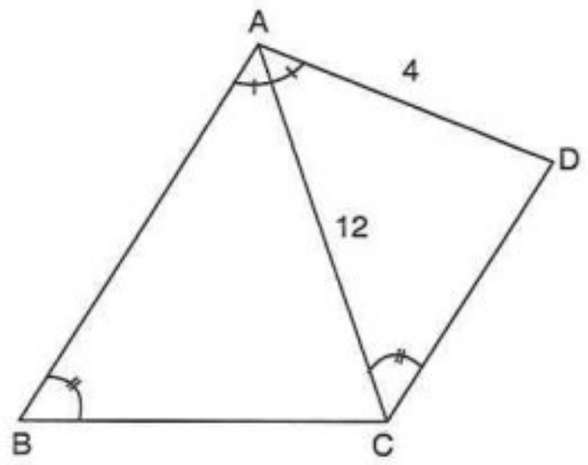
1.

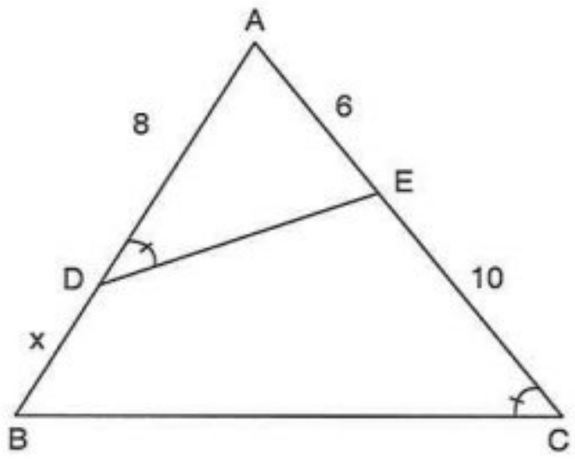


$m(B\widehat{A}C) = m(C\widehat{A}D)$
$m(A\widehat{B}C) = m(A\widehat{C}D)$
$|AD| = 4\,br$
$|AC| = 12\,br$

$\Rightarrow$ **$|AB| = ?$**

A) 16 B) 18 C) 24 D) 36 E) 48

2.

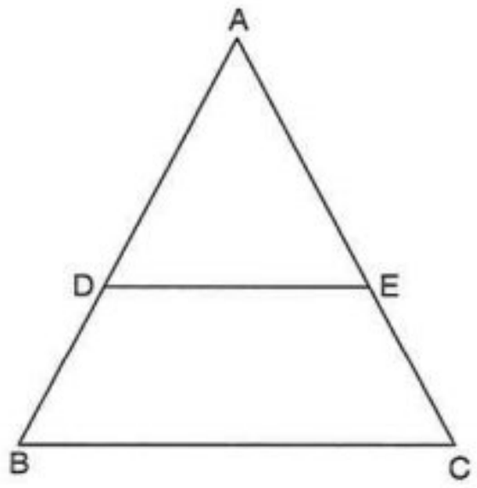


$m(A\widehat{D}E) = m(A\widehat{C}B)$
$|AE| = 6\,br$
$|AD| = 8\,br$
$|EC| = 10\,br$

$\Rightarrow$ **$|BD| = x = ?$**

A) 3 B) 4 C) 5 D) 6 E) 8

3.

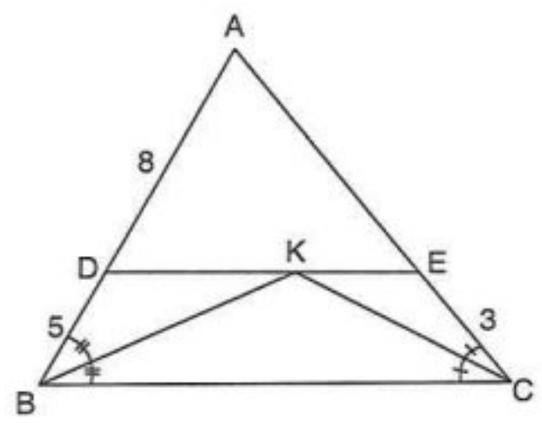


$[DE] \,/\!/\, [BC]$
$8|BD| = 3|AB|$
$|DE| = 10\,br$

$\Rightarrow$ **$|BC| = ?$**

A) 12 B) 14 C) 16 D) 18 E) 20

4.

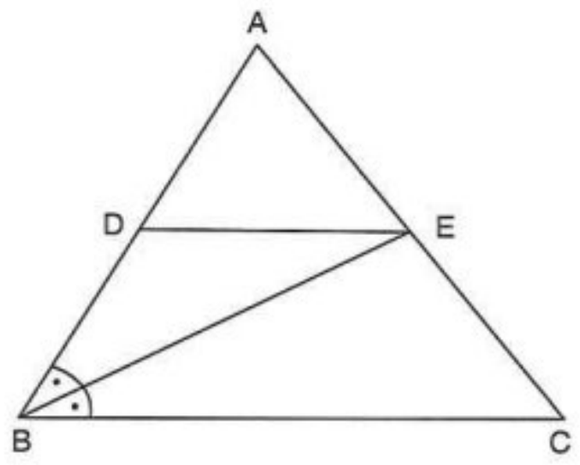


$[DE] \,/\!/\, [BC]$
$m(A\widehat{B}K) = m(K\widehat{B}C)$
$m(A\widehat{C}K) = m(K\widehat{C}B)$
$|EC| = 3\,br$
$|BD| = 5\,br$
$|AD| = 8\,br$

$\Rightarrow$ **$|BC| = ?$**

A) 10 B) 13 C) 15 D) 16 E) 18

5.

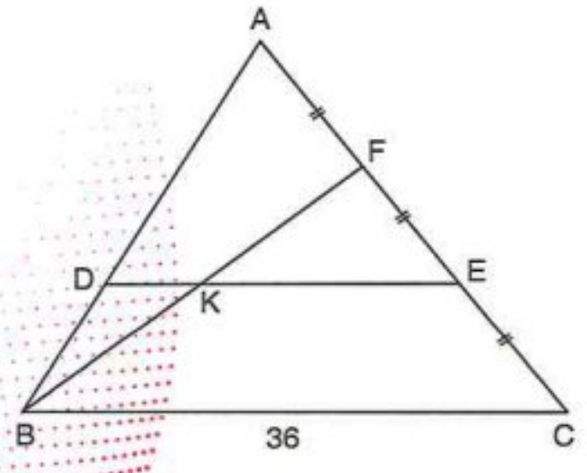


$[DE] \,/\!/\, [BC]$
$m(D\widehat{B}E) = m(E\widehat{B}C)$
$2|AD| = |BD| = 10\,br$

$\Rightarrow$ **$|BC| = ?$**

A) 15 B) 20 C) 25 D) 30 E) 40

6.



$[DE] \,/\!/\, [BC]$
$|AF| = |FE| = |EC|$
$|BC| = 36\,br$

$\Rightarrow$ **$|DK| = ?$**

A) 3 B) 4 C) 6 D) 8 E) 9

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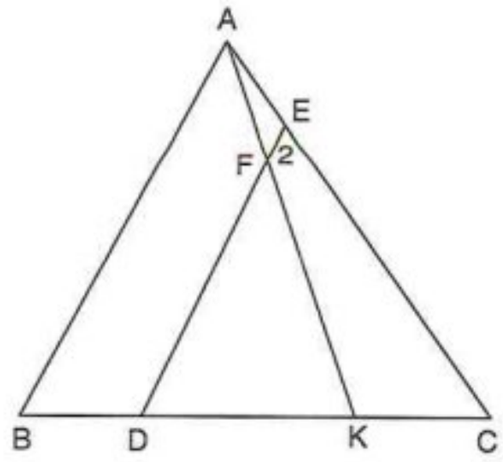
7.

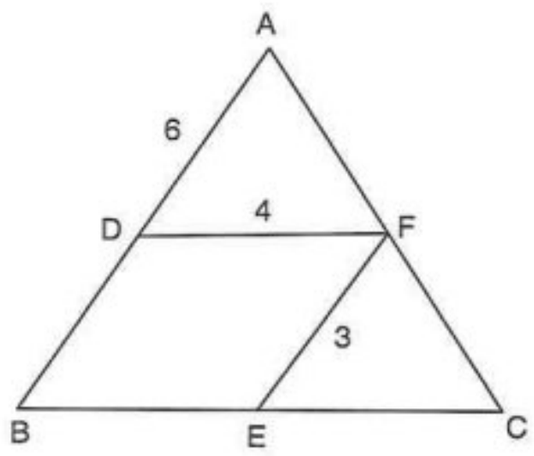


[DE] // [AB]
|DK| = 2|BD| = 2|KC|
|FE| = 2 br

⇒ **|AB| = ?**

A) 12 B) 16 C) 18 D) 20 E) 24

8.

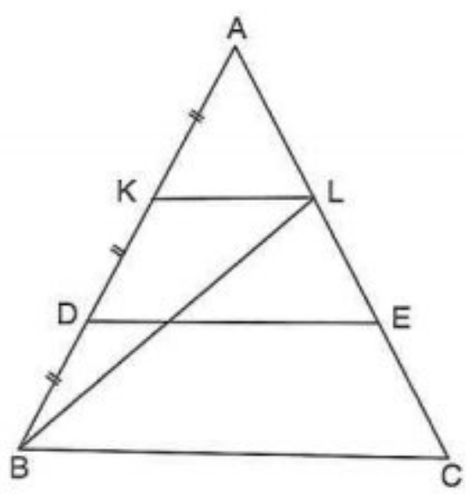


[DF] // [BC]
[EF] // [AB]
|EF| = 3 br
|DF| = 4 br
|AD| = 6 br

⇒ **|BC| = ?**

A) 6 B) 8 C) 10 D) 12 E) 16

9.

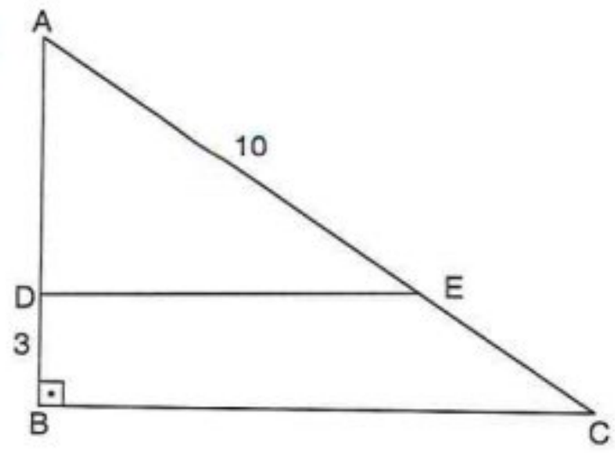


[KL] // [DE] // [BC]
|AK| = |KD| = |DB|
|BC| = 18 br

⇒ **|DE| + |KL| = ?**

A) 12 B) 15 C) 18 D) 20 E) 24

10.

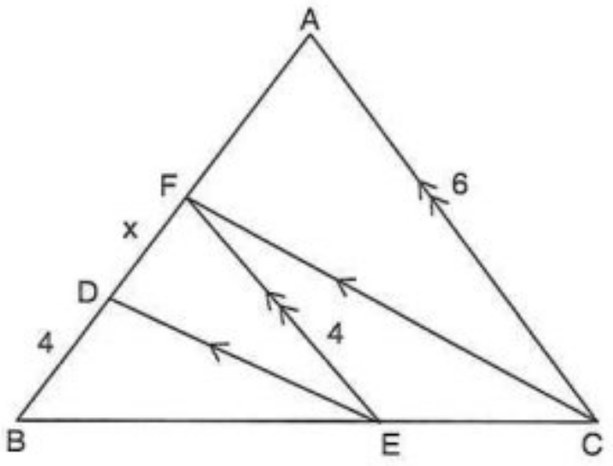


[DE] // [BC]
[AB] ⊥ [BC]
|AD| = 3 br
|AE| = 2|EC| = 10 br

⇒ **|BC| = ?**

A) 8 B) 10 C) 12 D) 13 E) 14

11.

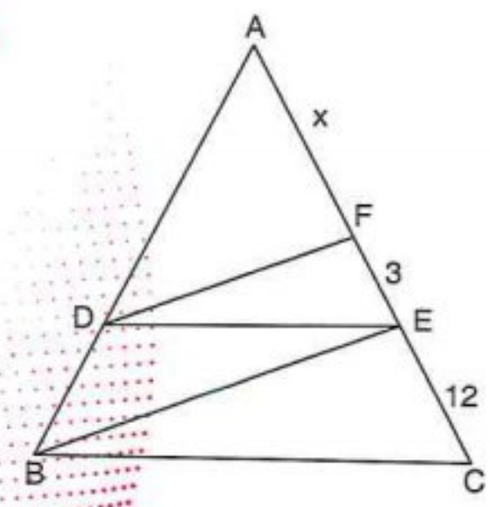


[EF] // [AC]
[DE] // [FC]
|AC| = 6 br
|DB| = |EF| = 4 br

⇒ **|DF| = x = ?**

A) 2 B) 4 C) 6 D) 8 E) 10

12.



[DE] // [BC]
[DF] // [BE]
|FE| = 3 br
|EC| = 12 br

⇒ **|AF| = x = ?**

A) 1 B) 2 C) 3 D) 4 E) 6

1. D	2. B	3. C	4. B	5. D	6. C
7. E	8. A	9. C	10. C	11. A	12. A

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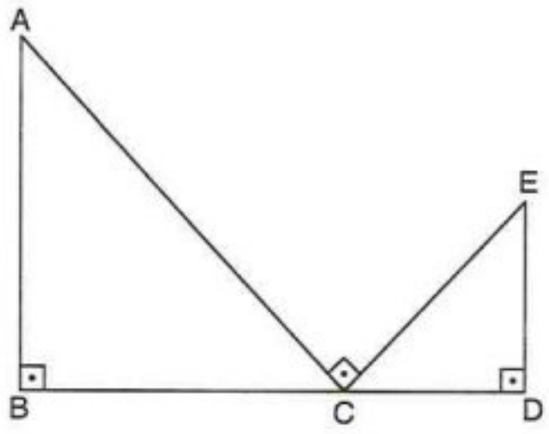
1.

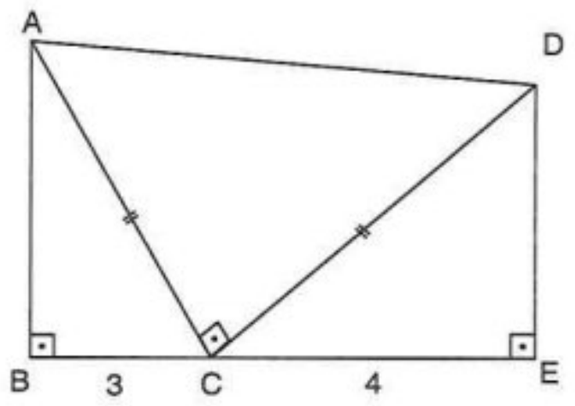


$[AB] \perp [BD]$
$[DE] \perp [BD]$
$[AC] \perp [CE]$
$2|AC| = 3|CE|$
$|BC| + |DE| = 15$ br

$\Rightarrow$ **$|BC| = ?$**

A) 4 B) 6 C) 8 D) 9 E) 12

2.

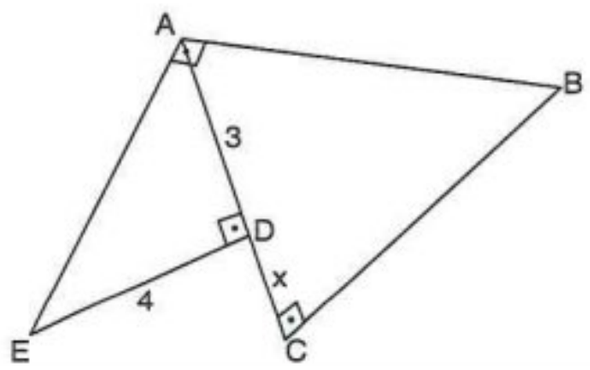


$[AB] \perp [BE]$
$[DE] \perp [BE]$
$[AC] \perp [CD]$
$|AC| = |CD|$
$|BC| = 3$ br
$|CE| = 4$ br

$\Rightarrow$ **$|AD| = ?$**

A) 5 B) $5\sqrt{2}$ C) $5\sqrt{3}$ D) 10 E) $5\sqrt{5}$

3.

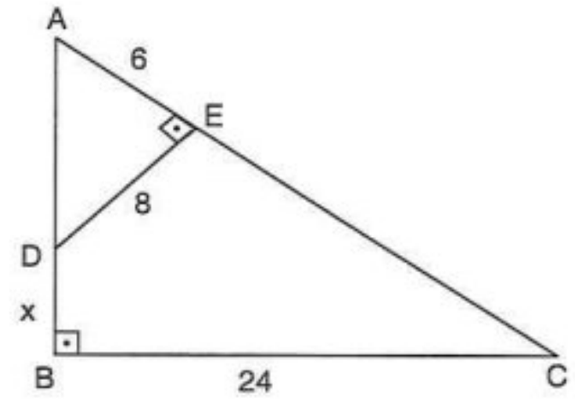


$[AB] \perp [AE]$
$[ED] \perp [AC]$
$[AC] \perp [BC]$
$|AB| = |AE|$
$|AD| = 3$ br
$|DE| = 4$ br

$\Rightarrow$ **$|DC| = x = ?$**

A) 1 B) 2 C) 3 D) 4 E) 5

4.

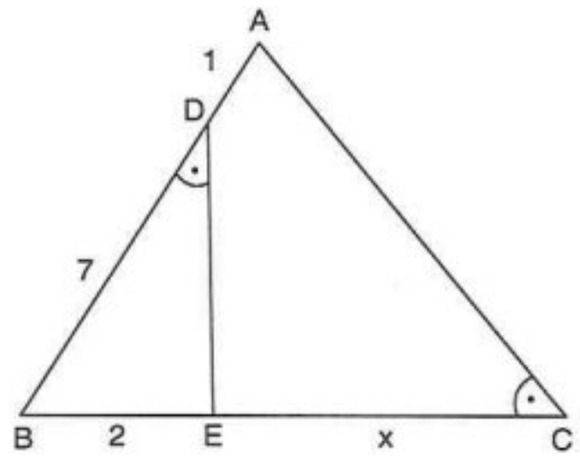


$[AB] \perp [BC]$
$[DE] \perp [AC]$
$|AE| = 6$ br
$|DE| = 8$ br
$|BC| = 24$ br

$\Rightarrow$ **$|BD| = x = ?$**

A) 5 B) 6 C) 7 D) 8 E) 9

5.

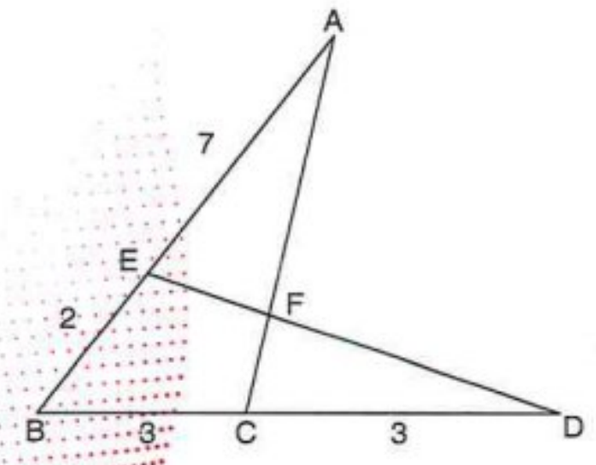


$m(\widehat{BDE}) = m(\widehat{ACB})$
$|AD| = 1$ br
$|BE| = 2$ br
$|BD| = 7$ br

$\Rightarrow$ **$|EC| = x = ?$**

A) 20 B) 22 C) 24 D) 26 E) 28

6.



$|EB| = 2$ br
$|BC| = |CD| = 3$ br
$|AE| = 7$ br

$\Rightarrow$ $\dfrac{|AC|}{|ED|} = ?$

A) $\frac{3}{2}$ B) $\frac{1}{3}$ C) $\frac{2}{3}$ D) $\frac{3}{4}$ E) $\frac{4}{3}$

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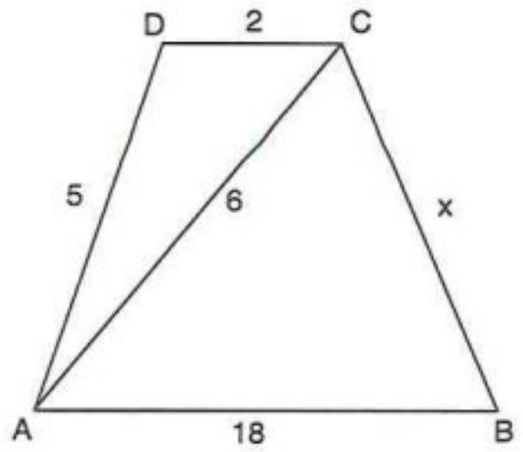
7.

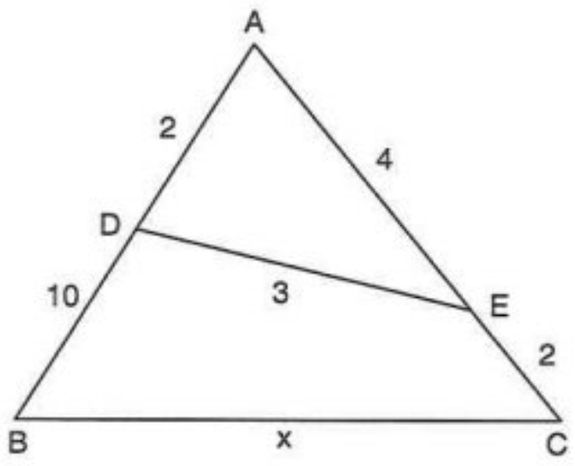


$[AB] \parallel [CD]$
$|DC| = 2\,br$
$|AD| = 5\,br$
$|AC| = 6\,br$
$|AB| = 18\,br$

$\Rightarrow |\mathbf{AB}| = \mathbf{x} = ?$

A) 10 B) 12 C) 15 D) 18 E) 20

8.

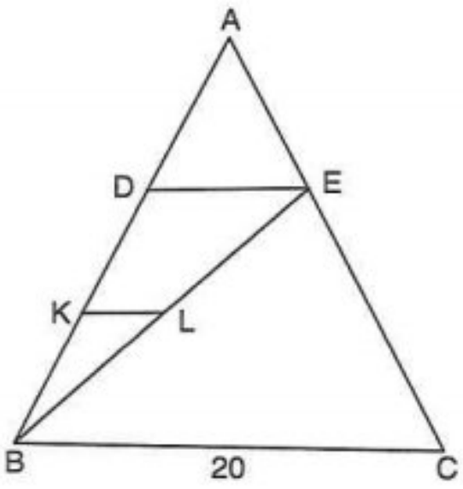


$|AD| = |EC| = 2\,br$
$|DE| = 3\,br$
$|AE| = 4\,br$
$|BD| = 10\,br$

$\Rightarrow |\mathbf{BC}| = \mathbf{x} = ?$

A) 6 B) 8 C) 9 D) 12 E) 15

9.

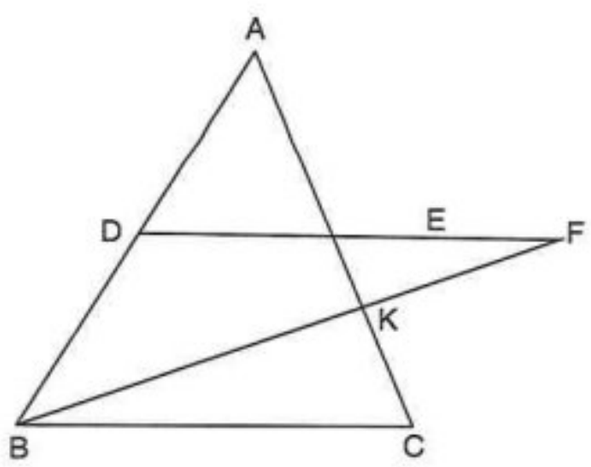


$[DE] \parallel [KL] \parallel [BC]$
$|BK| = |KD| = \dfrac{|AD|}{3}$
$|BC| = 20$

$\Rightarrow |\mathbf{KL}| = ?$

A) 3 B) 4 C) 5 D) 6 E) 8

10.

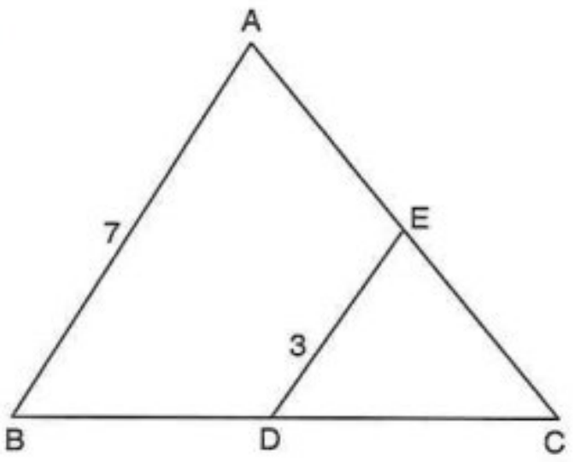


$[DF] \parallel [BC]$
$|DE| = |EF|$
$|KC| = 2|EK|$

$\Rightarrow \dfrac{|\mathbf{AE}|}{|\mathbf{KC}|} = ?$

A) $\frac{2}{3}$ B) $\frac{1}{2}$ C) 1 D) $\frac{3}{2}$ E) 2

11.

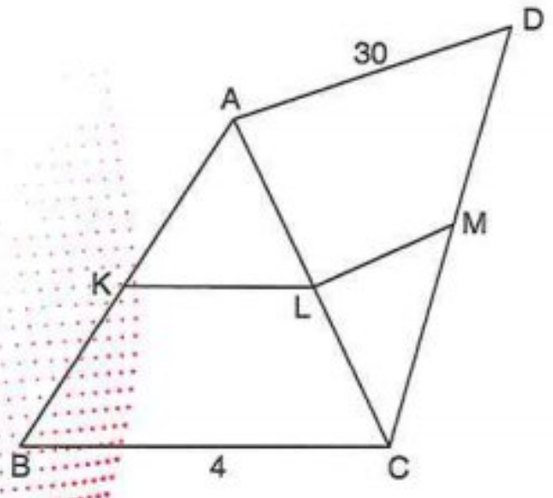


$[DE] \parallel [AB]$
$|ED| = 3\,br$
$|AB| = 7\,br$
$|BD| = 8\,br$

$\Rightarrow |\mathbf{DC}| = ?$

A) 7 B) 6 C) 5 D) 4 E) 3

12.



$[KL] \parallel [BC]$
$[LM] \parallel [AD]$
$2|AK| = 3|KB|$
$|AD| = 30\,br$

$\Rightarrow |\mathbf{LM}| = ?$

A) 10 B) 12 C) 15 D) 16 E) 18

1. D	2. B	3. A	4. D	5. D	6. A
7. C	8. C	9. D	10. D	11. B	12. B

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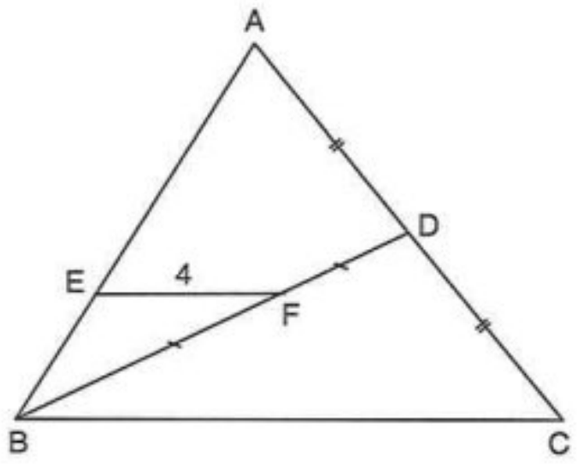
1.

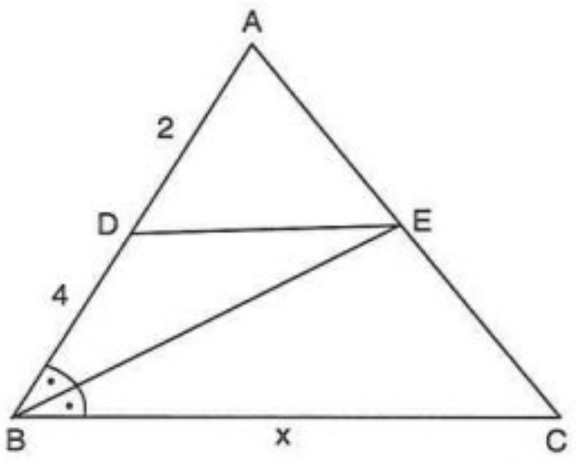


[EF] // [BC]
|AD| = |DC|
|BF| = |FD|
|EF| = 4 br

⇒ **|BC| = ?**

A) 6 B) 8 C) 12 D) 16 E) 20

2.

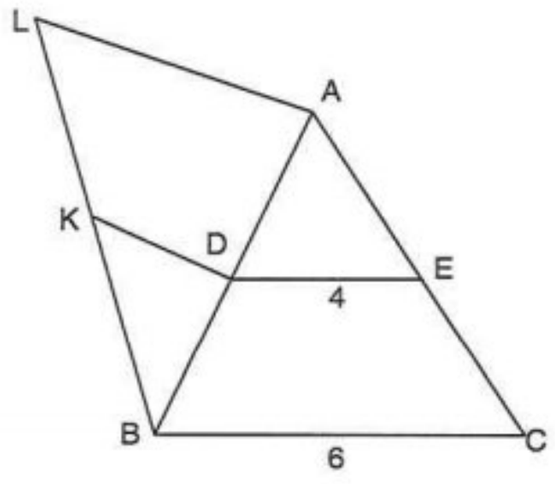


[DE] // [BC]
$m(\widehat{ABE}) = m(\widehat{EBC})$
|AD| = 2 br
|BD| = 4 br

⇒ **|BC| = x = ?**

A) 6 B) 8 C) 10 D) 12 E) 16

3.

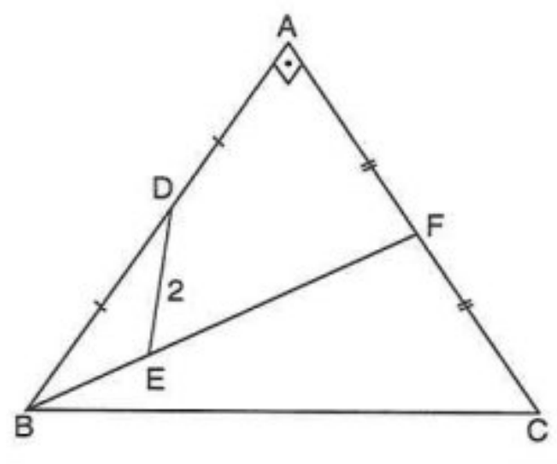


[DE] // [BC]
[KD] // [AL]
|KD| = 1 br
|DE| = 4 br
|BC| = 6 br

⇒ **|AL| = ?**

A) 2 B) 3 C) 4 D) 5 E) 6

4.

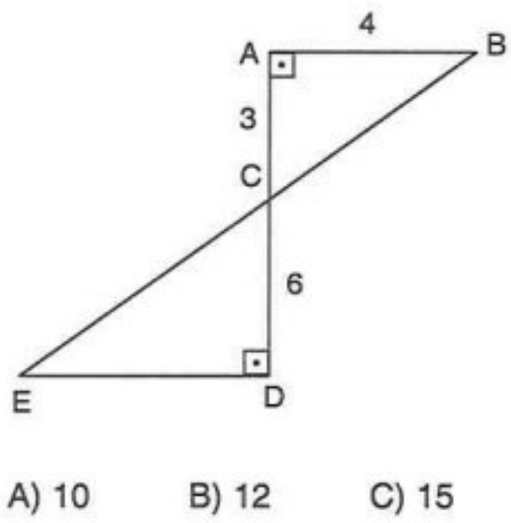


[AB] ⊥ [AC]
|AD| = |BD|
|AF| = |FC|
2|BE| = |EF|
|ED| = 2 br

⇒ **|BC| = ?**

A) 6 B) 8 C) 10 D) 12 E) 16

5.

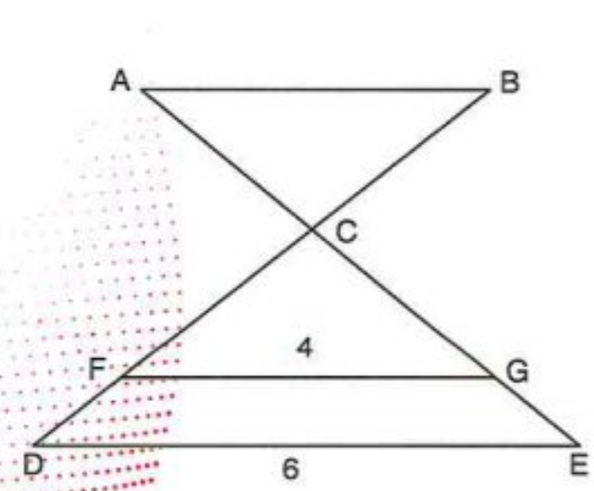


[AB] ⊥ [AD]
[AD] ⊥ [ED]
|AC| = 3 br
|AB| = 4 br
|CD| = 6 br

⇒ **|BE| = ?**

A) 10 B) 12 C) 15 D) 18 E) 20

6.



[AB] // [FG] // [DE]
|AC| = 3|GE|
|FG| = 4 br
|DE| = 6 br

⇒ **|AB| = ?**

A) 4 B) 6 C) 8 D) 12 E) 16

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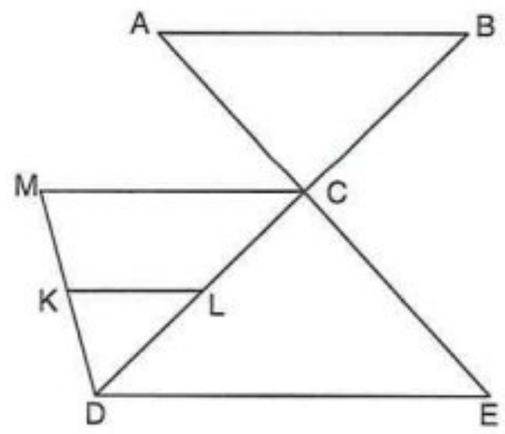
7.

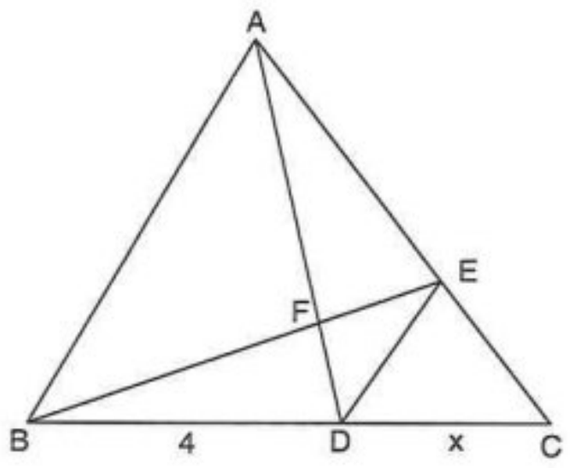


$[AB] // [DE] // [KL] // [MC]$
$|EC| = 2|AC|$
$|MK| = |KD|$
$|BC| = 3\,br$
$|MC| = 10\,br$

$\Rightarrow$ **$|KL| - |DL| = ?$**

A) 2 B) 3 C) 4 D) 5 E) 6

8.

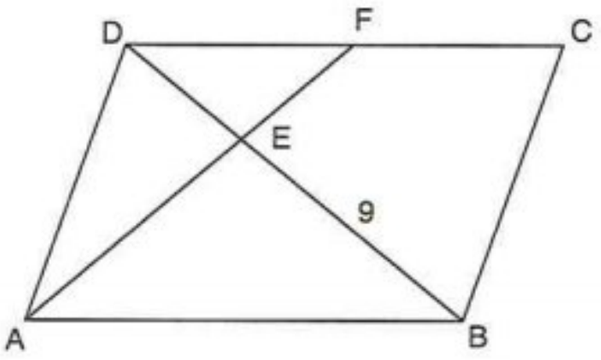


$[DE] // [AB]$
$|AF| = 2|FD|$
$|BD| = 4\,br$

$\Rightarrow$ **$|DC| = x = ?$**

A) 4 B) 6 C) 8 D) 10 E) 12

9.

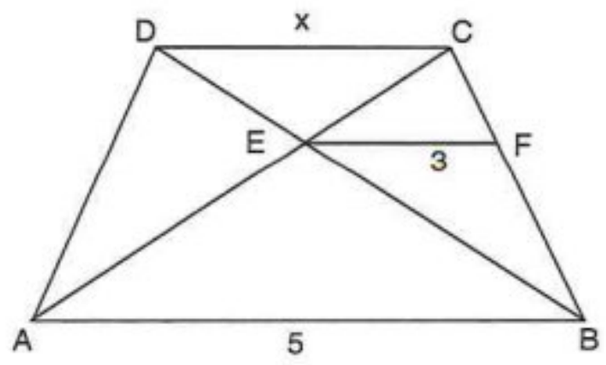


$[AB] // [DC]$
$[AD] // [BC]$
$|CF| = 2|DF|$
$|EB| = 9\,br$

$\Rightarrow$ **$|DE| = ?$**

A) 3 B) 4 C) 5 D) 6 E) 8

10.

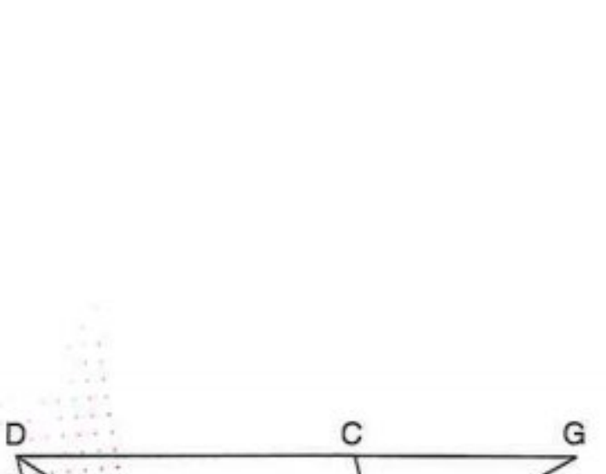


$[DC] // [EF] // [AB]$
$|EF| = 3\,br$
$|AB| = 5\,br$

$\Rightarrow$ **$|DC| = x = ?$**

A) 5 B) $\frac{15}{2}$ C) 10 D) 12 E) 15

11.

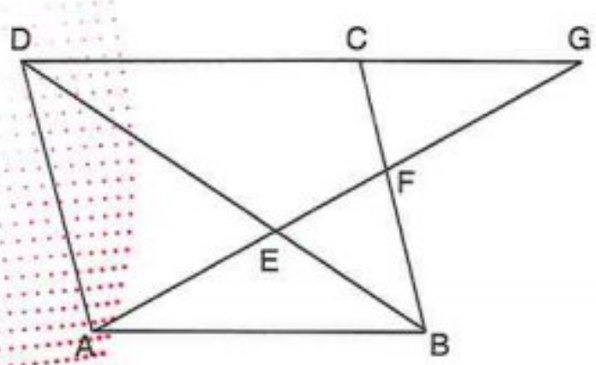


$[DC] // [EF] // [AB]$
$3|DE| = 2|AE|$
$|CF| = 4\,br$

$\Rightarrow$ **$|BF| = ?$**

A) 2 B) 4 C) 6 D) 8 E) 10

12.



$[DG] // [AB]$
$[AD] // [BC]$
$4|CG| = |AB|$
$|AE| = 8\,br$

$\Rightarrow$ **$|EG| = ?$**

A) 8 B) 10 C) 12 D) 16 E) 20

1. D	2. D	3. B	4. D	5. C	6. B
7. A	8. A	9. A	10. B	11. C	12. B

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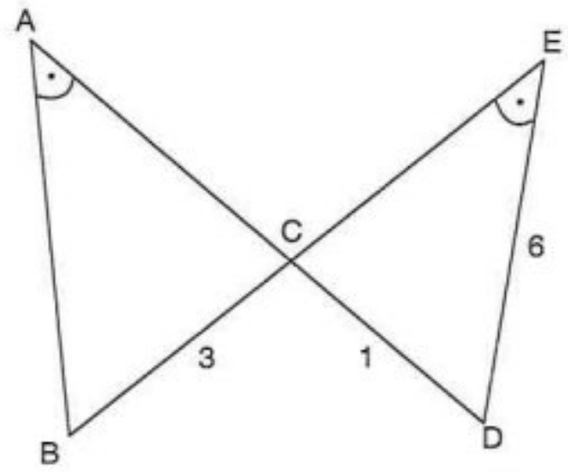
1.

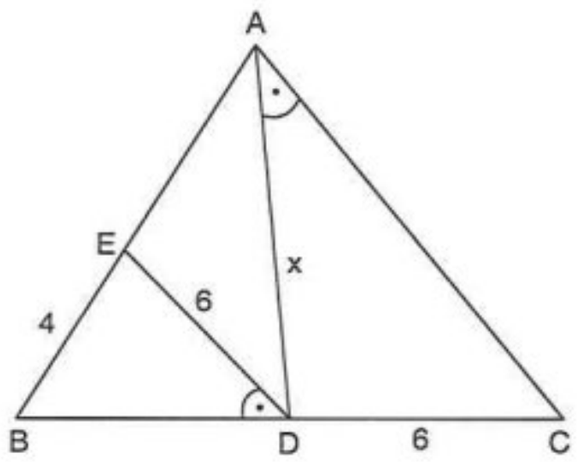


$m(\widehat{BAD}) = m(\widehat{BED})$
$|CD| = 1br$
$|BC| = 3br$
$|DE| = 6br$

$\Rightarrow |\mathbf{AB}| = ?$

A) 6 B) 8 C) 9 D) 12 E) 18

2.

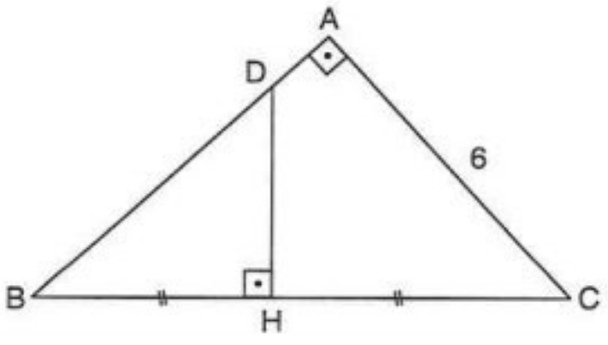


$m(\widehat{EDB}) = m(\widehat{DAC})$
$|AB| = |AC|$
$|ED| = |DC| = 6br$
$|EB| = 4br$

$\Rightarrow |\mathbf{AD}| = \mathbf{x} = ?$

A) 4 B)6 C) 8 D) 9 E) 12

3.

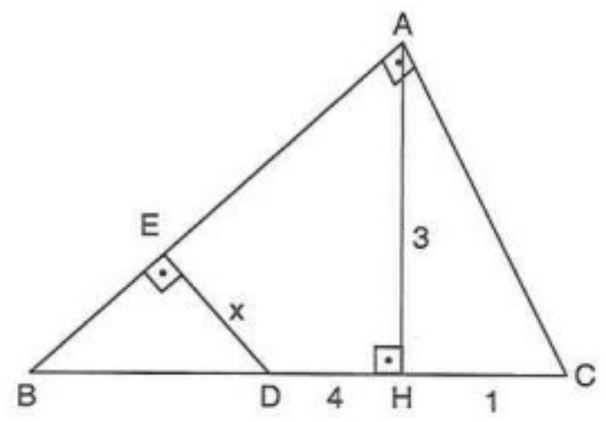


$[AB] \perp [AC]$
$[DH] \perp [BC]$
$|BH| = |HC|$
$|AC| = 6br$
$|AB| = 8br$

$\Rightarrow |\mathbf{BD}| = ?$

A) $\frac{25}{4}$ B) $\frac{5}{4}$ C) $\frac{5}{2}$ D) 4 E) 5

4.

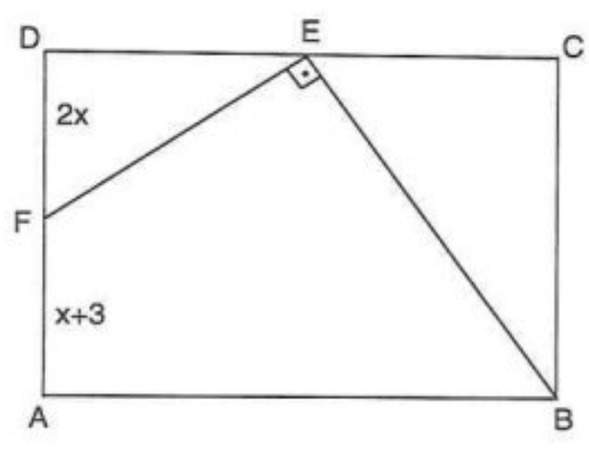


$[AB] \perp [AC]$
$[AH] \perp [BC]$
$[DE] \perp [AB]$
$|HC| = 1br$
$|AH| = 3br$
$|DH| = 4br$

$\Rightarrow |\mathbf{ED}| = \mathbf{x} = ?$

A) $\frac{\sqrt{10}}{3}$ B) $\frac{\sqrt{10}}{2}$ C) $\sqrt{10}$ D) $2\sqrt{10}$ E) $3\sqrt{10}$

5.

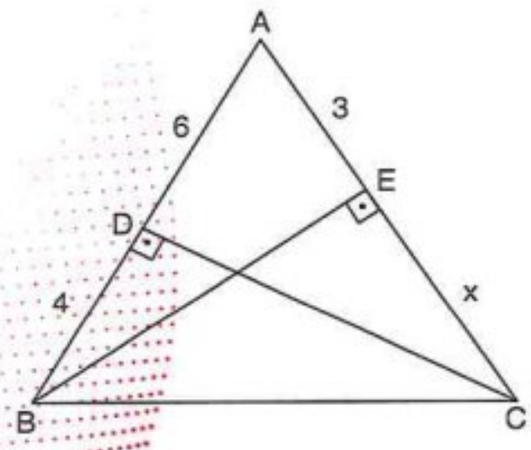


ABCD dikdörtgen
(rectangle)
$[FE] \perp [EB]$
$3|EF| = 2|BE|$
$|DF| = (2x)br$
$|AF| = (x+3)br$
$|AB| = 17br$

$\Rightarrow \mathbf{x} = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

6.



$[BE] \perp [AC]$
$[CD] \perp [AB]$
$|AE| = 3br$
$|BD| = 4br$
$|AD| = 6br$

$\Rightarrow |\mathbf{EC}| = \mathbf{x} = ?$

A) 11 B) 14 C) 17 D) 20 E) 23

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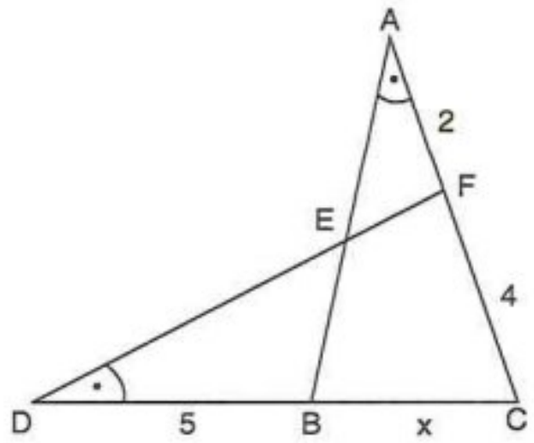
7.

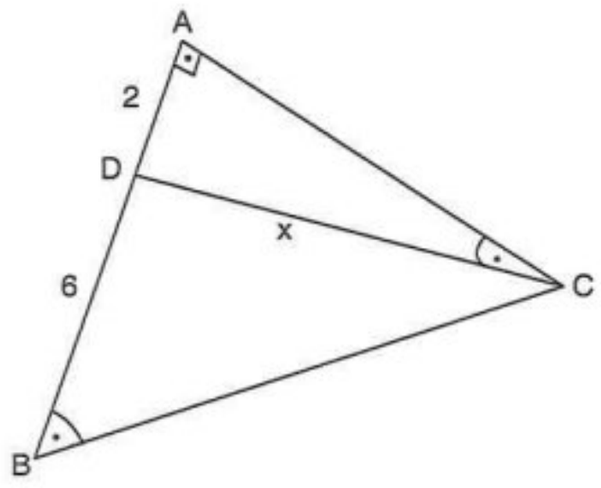


$m(\widehat{BAC}) = m(\widehat{FDC})$
$|AF| = 2$ br
$|FC| = 4$ br
$|BD| = 5$ br

⇒ $|BC| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

8.

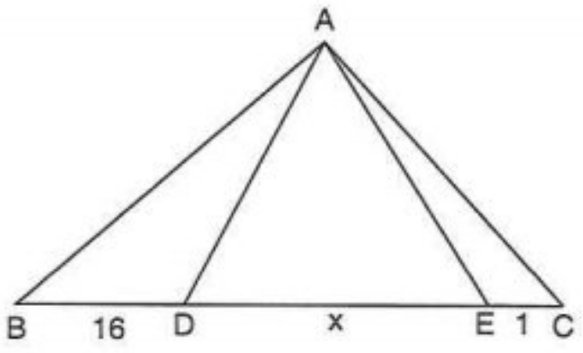


$[AB] \perp [AC]$
$m(\widehat{ABC}) = m(\widehat{ACD})$
$|AD| = 2$ br
$|BD| = 6$ br

⇒ $|DC| = x = ?$

A) 2 B) $2\sqrt{2}$ C) $2\sqrt{3}$ D) 4 E) $2\sqrt{5}$

9.

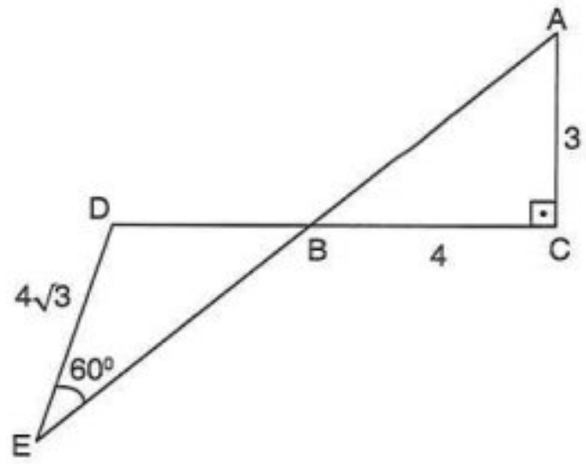


ADE, eşkenar üçgen
(equilateral triangle)
$m(\widehat{BAC}) = 120°$
$|EC| = 1$ br
$|BD| = 16$ br

⇒ $|DE| = x = ?$

A) 2 B) 4 C) 6 D) 8 E) 10

10.

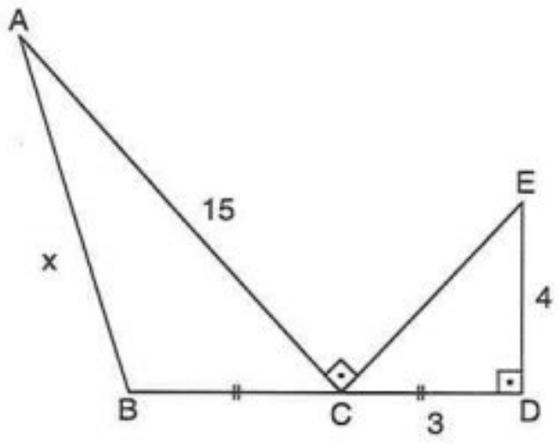


$[AC] \perp [DC]$
$m(\widehat{DEA}) = 60°$
$|AC| = 3$ br
$|BC| = 4$ br
$|DE| = 4\sqrt{3}$ br

⇒ $|BD| = ?$

A) 2 B) 4 C) 6 D) 8 E) 10

11.

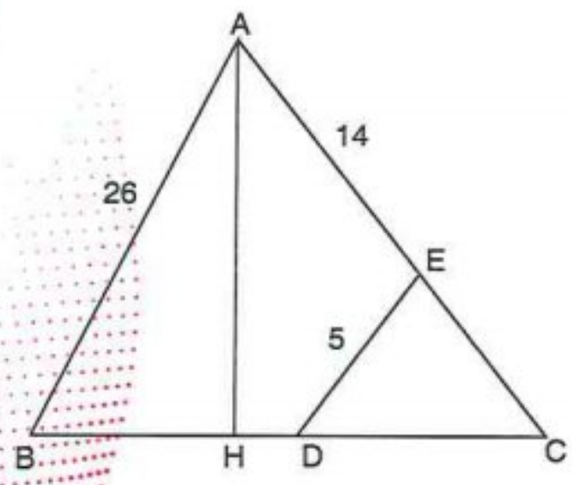


$[BD] \perp [ED]$
$[AC] \perp [CE]$
$|BC| = |CD| = 3$ br
$|ED| = 4$ br
$|AC| = 15$ br

⇒ $|AB| = x = ?$

A) $9\sqrt{3}$ B) $9\sqrt{2}$ C) 9 D) $3\sqrt{5}$ E) 6

12.



$[AH] \perp [BC]$
$[DE] \perp [AC]$
$|BH| = |HC|$
$|DE| = 5$ br
$|AE| = 14$ br
$|AB| = 26$ br

⇒ $|HD| = ?$

A) 11 B) 12 C) 13 D) 14 E) 15

1. E	2. D	3. A	4. B	5. C	6. C
7. C	8. E	9. B	10. E	11. B	12. A

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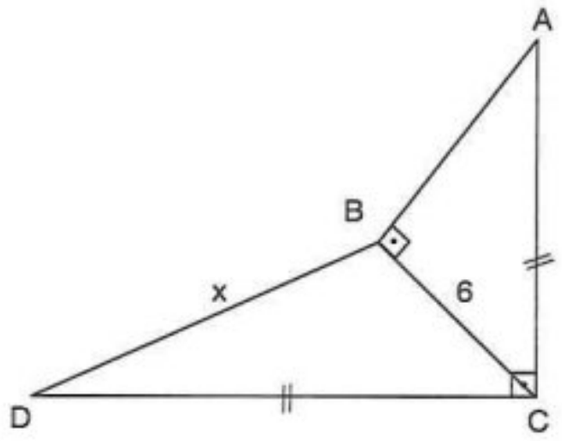
1.

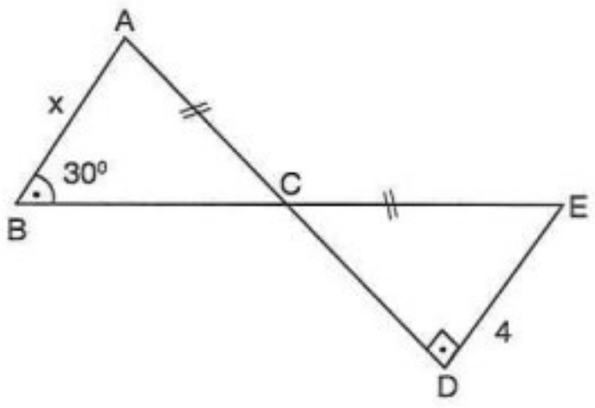


$[AC] \perp [DC]$
$[AB] \perp [BC]$
$|AC| = |DC|$
$|BC| = 6\,br$
$|AB| = 14\,br$

$\Rightarrow |\mathbf{BD}| = \mathbf{x} = ?$

A) 4 B) 6 C) 8 D) 10 E) 19

2.

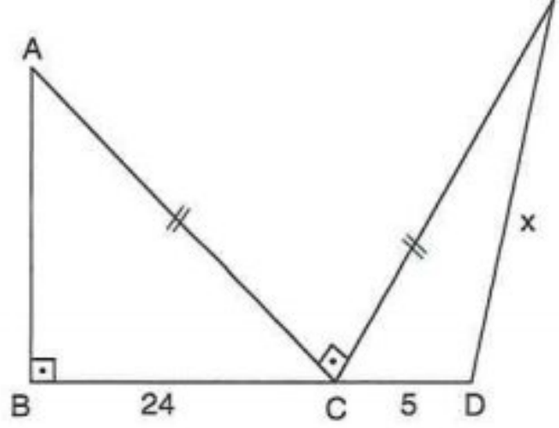


$[AD] \perp [DE]$
$m(\widehat{ABE}) = 30°$
$|AC| = |CE|$
$|DE| = 4\,br$

$\Rightarrow |\mathbf{AB}| = \mathbf{x} = ?$

A) 4 B) 6 C) 8 D) 10 E) 12

3.

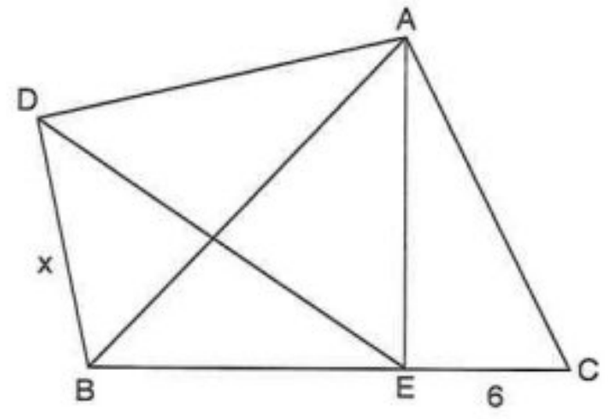


$[AB] \perp [BD]$
$[AC] \perp [CE]$
$|AC| = |CE|$
$|CD| = 5\,br$
$|AB| = 12\,br$
$|BC| = 24\,br$

$\Rightarrow |\mathbf{ED}| = \mathbf{x} = ?$

A) 15 B) 20 C) 25 D) 30 E) 35

4.



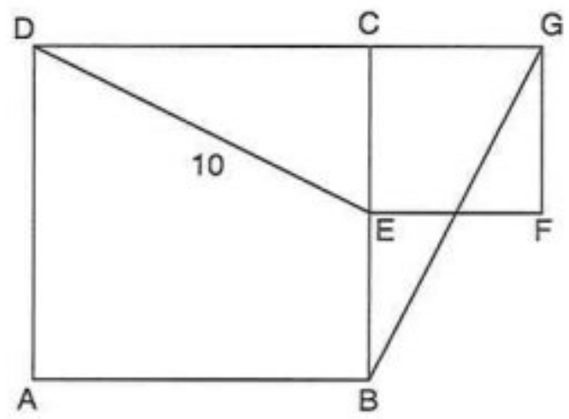
ABC, ADE eşkenar üçgen *(equilateral triangle)*

$|EC| = 6\,br$

$\Rightarrow |\mathbf{BD}| = \mathbf{x} = ?$

A) 3 B) 6 C) 9 D) 12 E) 15

5.



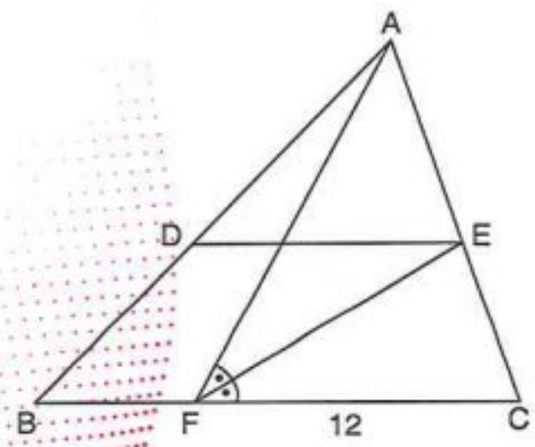
ABCD, EFGC kare *(square)*

$|DE| = 10\,br$

$\Rightarrow |\mathbf{BG}| = ?$

A) 5 B) 6 C) 8 D) 10 E) 20

6.



$[DE] /\!/ [BC]$
$m(\widehat{AFE}) = m(\widehat{EFC})$
$3|AD| = 2|DB|$
$|FC| = 12\,br$

$\Rightarrow |\mathbf{AF}| = ?$

A) 4 B) 8 C) 12 D) 16 E) 20

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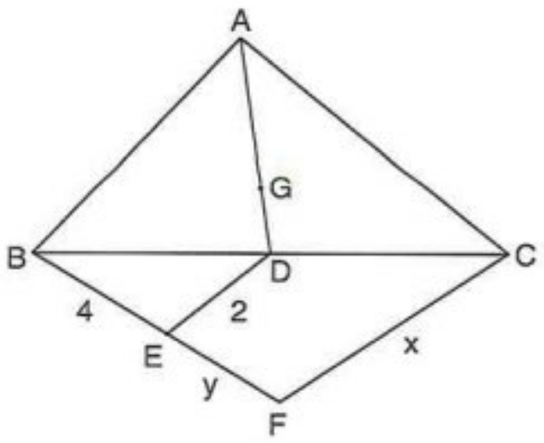
7.

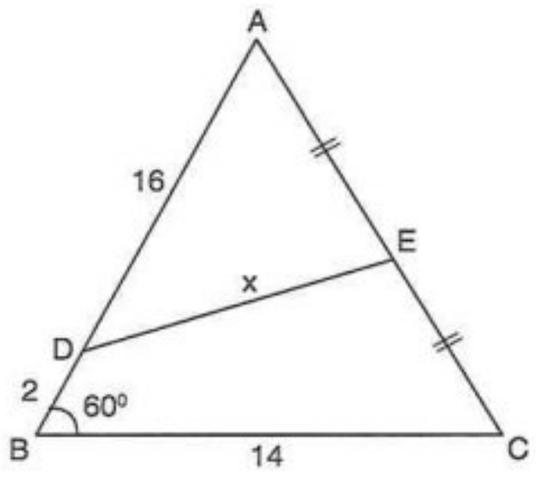


G ağırlık merkezi
(center of gravity)
[ED] // [FC]
|ED| = 2 br
|EB| = 4 br
|FC| = x br
|FE| = y br

⇒ **x + y = ?**

A) 2 B) 4 C) 6 D) 8 E) 10

8.

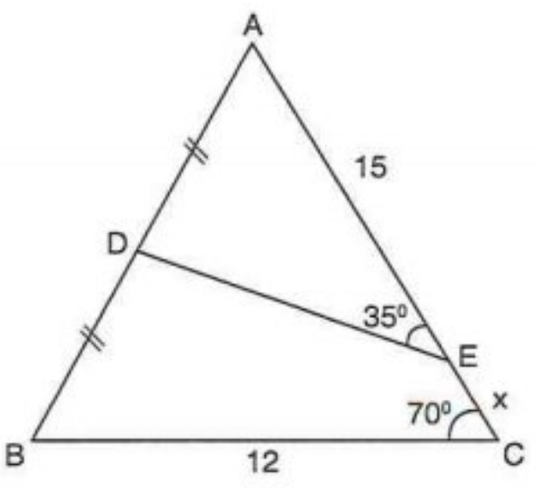


$m(\widehat{ABC}) = 60°$
|AE| = |EC|
|AD| = 16 br
|BC| = 14 br
|BD| = 2 br

⇒ **|DE| = x = ?**

A) $5\sqrt{2}$ B) $6\sqrt{3}$ C) $7\sqrt{3}$ D) $8\sqrt{5}$ E) $9\sqrt{3}$

9.

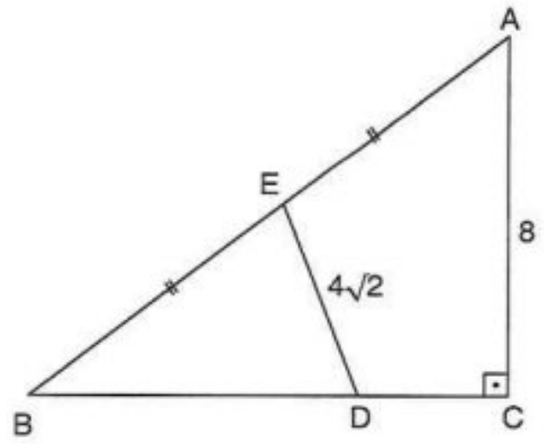


$m(\widehat{ACB}) = 70°$
$m(\widehat{AED}) = 35°$
|AD| = |BD|
|AE| = 15 br
|BC| = 12 br

⇒ **|EC| = x = ?**

A) 1 B) 3 C) 4 D) 5 E) 6

10.

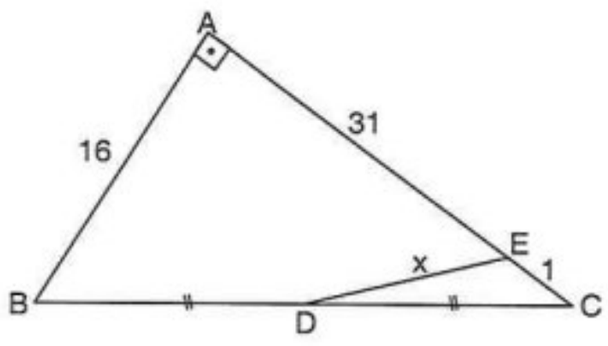


[AC] ⊥ [BC]
|BE| = |AE|
|AC| = 8 br
$|ED| = 4\sqrt{2}$ br

⇒ **$m(\widehat{BDE}) = ?$**

A) 15° B) 30° C) 45° D) 60° E) 75°

11.

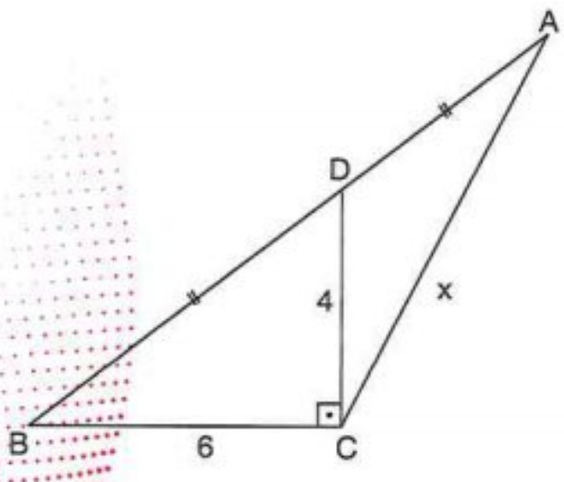


[AB] ⊥ [AC]
|BD| = |DC|
|EC| = 1 br
|AB| = 16 br
|AE| = 31 br

⇒ **|DE| = x = ?**

A) 10 B) 13 C) 15 D) 16 E) 17

12.



[DC] ⊥ [BC]
|BD| = |AD|
|DC| = 4 br
|BC| = 6 br

⇒ **|AC| = x = ?**

A) 10 B) 12 C) 14 D) 16 E) 19

1. D	2. C	3. C	4. B	5. D	6. B
7. D	8. C	9. B	10. C	11. E	12. A

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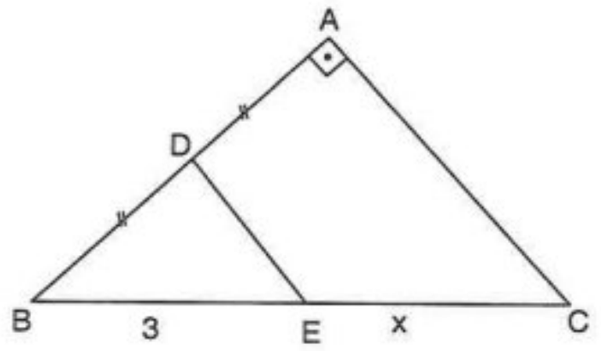
1.

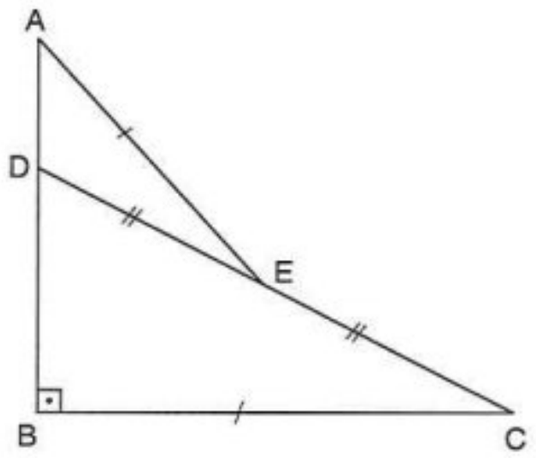


$[AB] \perp [AC]$
$|AD| = |BD|$
$|BE| = |ED| = 3\,br$

$\Rightarrow |\mathbf{EC}| = \mathbf{x} = ?$

A) 3 B) 6 C) 9 D) 12 E) 15

2.



$[AB] \perp [BC]$
$|DE| = |EC|$
$|AE| = |BC|$

$\Rightarrow \mathbf{m(\widehat{BAE})} = ?$

A) 15° B) 30° C) 45° D) 60° E) 75°

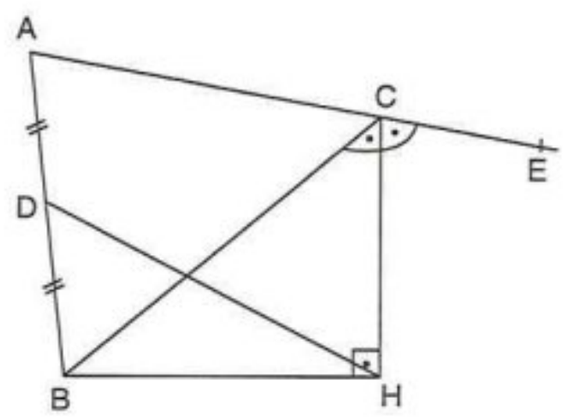
3.

$[AD] \perp [DC]$
$m(\widehat{BAD}) = m(\widehat{DAC})$
$|BE| = |EC|$
$|AC| = 13\,br$
$|DE| = 5\,br$

$\Rightarrow |\mathbf{AB}| = \mathbf{x} = ?$

A) 12 B) 14 C) 16 D) 18 E) 23

4.

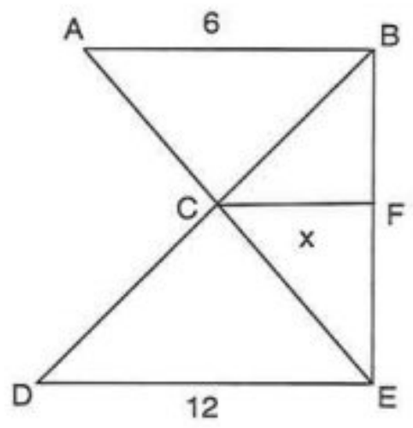


$[CH] \perp [BH]$
$m(\widehat{BCH}) = m(\widehat{HCE})$
$|AD| = |BD|$
$|DH| = 5\,br$

$\Rightarrow |\mathbf{AC}| + |\mathbf{BC}| = ?$

A) 5 B) 10 C) 15 D) 20 E) 25

5.

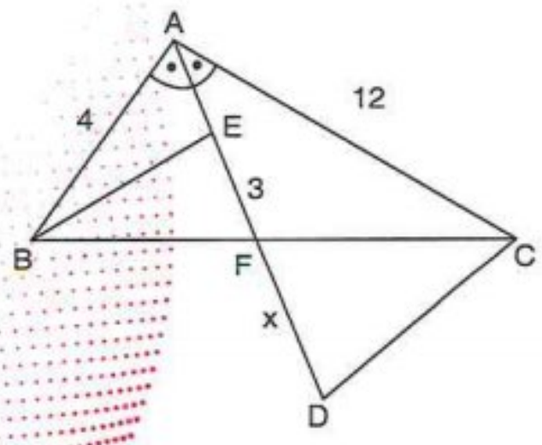


$[AB] /\!/ [CF] /\!/ [DE]$
$|AB| = 6\,br$
$|DE| = 12\,br$

$\Rightarrow |\mathbf{CF}| = \mathbf{x} = ?$

A) 2 B) 3 C) 4 D) 6 E) 8

6.



$[BE] /\!/ [DC]$
$m(\widehat{BAD}) = m(\widehat{DAC})$
$|EF| = 3\,br$
$|AB| = 4\,br$
$|AC| = 12\,br$

$\Rightarrow |\mathbf{FD}| = \mathbf{x} = ?$

A) 3 B) 6 C) 9 D) 12 E) 15

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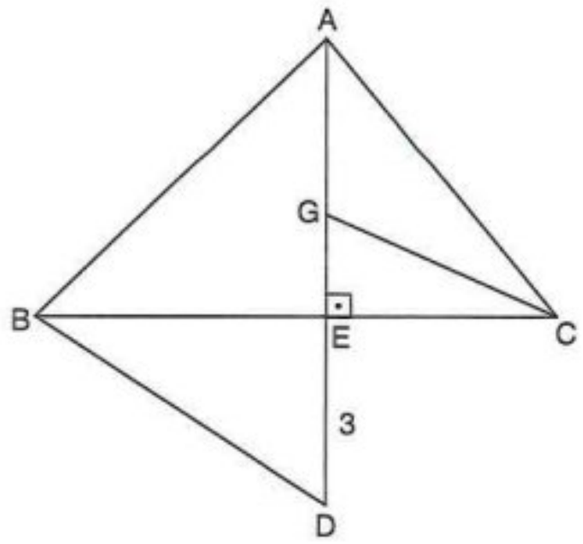
7.

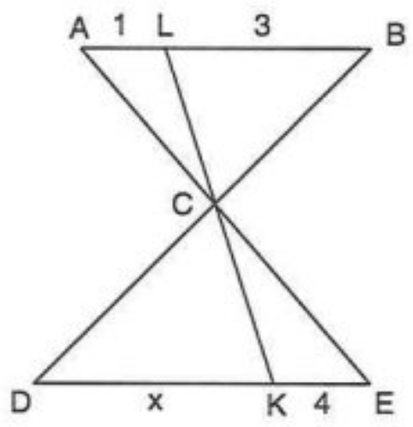


G, ağırlık merkezi
(center of gravity)
[AD] ⊥ [BC]
[GC] // [BD]
|ED| = 3 br

⇒ **|AE| = ?**

A) 6 B) 9 C) 12 D) 15 E) 18

8.

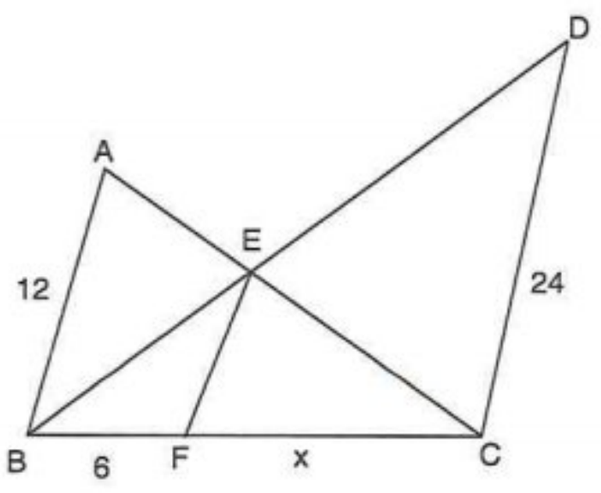


[AB] // [DE]
|AL| = 1 br
|LB| = 3 br
|KE| = 4 br

⇒ **|DK| = x = ?**

A) 3 B) 6 C) 9 D) 12 E) 15

9.

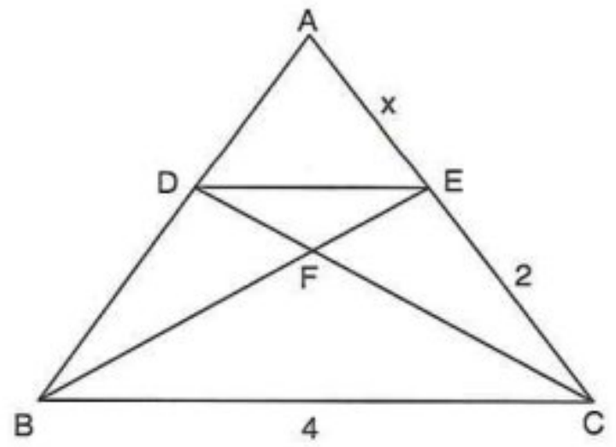


[AB] // [EF] // [DC]
|BF| = 6 br
|AB| = 12 br
|DC| = 24 br

⇒ **|FC| = ?**

A) 3 B) 4 C) 6 D) 8 E) 12

10.

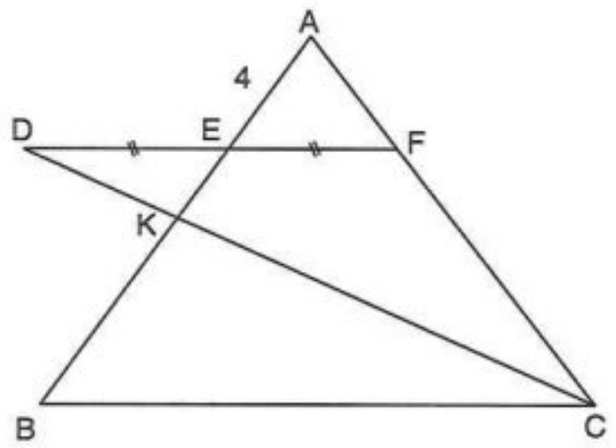


[DE] // [BC]
7|DF| = 3|CD|
|EC| = 2 br

⇒ **|AE| = x = ?**

A) 3 B) 4 C) 6 D) 7 E) 8

11.

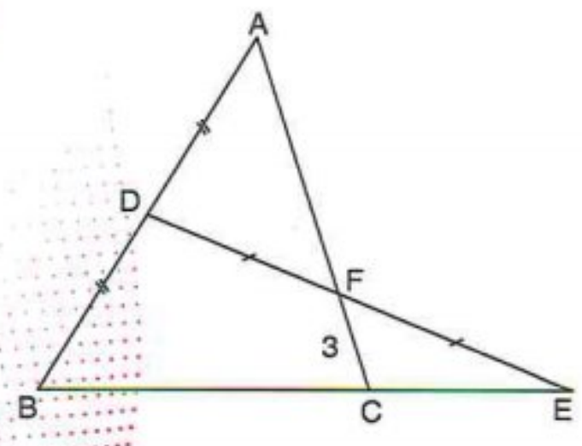


[DF] // [BC]
|DE| = |EF|
|AE| = 4 br
|KB| = 6 br

⇒ **|EK| = ?**

A) 2 B) 4 C) 6 D) 8 E) 10

12.



|AD| = |BD|
|DF| = |FE|
|CF| = 3 br

⇒ **|AF| = ?**

A) 6 B) 8 C) 9 D) 12 E) 18

1. C	2. B	3. E	4. B	5. C	6. C
7. B	8. D	9. E	10. C	11. A	12. C

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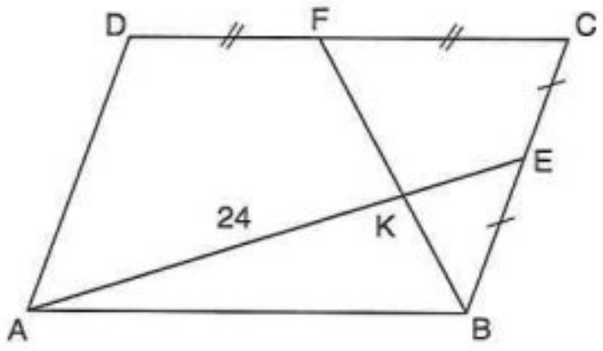
1.

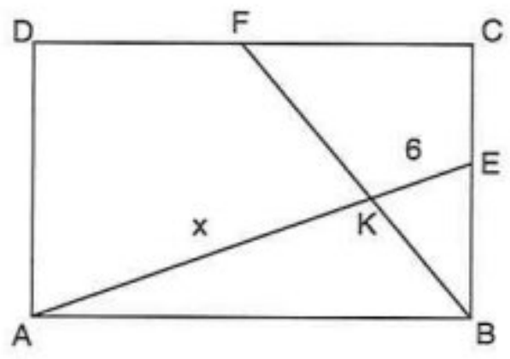


[DC] // [AB]
[AD] // [BC]
|DF| = |FC|
|CE| = |EB|
|AK| = 24 br

⇒ **|KE| = ?**

A) 4 B) 6 C) 9 D) 12 E) 15

2.

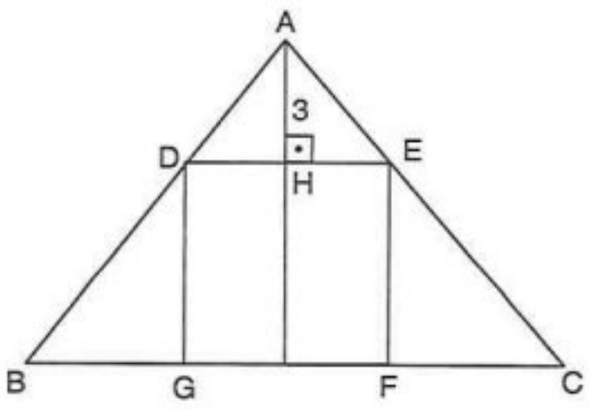


ABCD dikdörtgen *(rectangle)*
3|CE| = |BE|
2|DF| = |FC|
|EK| = 6 br

⇒ **|AK| = x = ?**

A) 3 B) 6 C) 9 D) 12 E) 15

3.

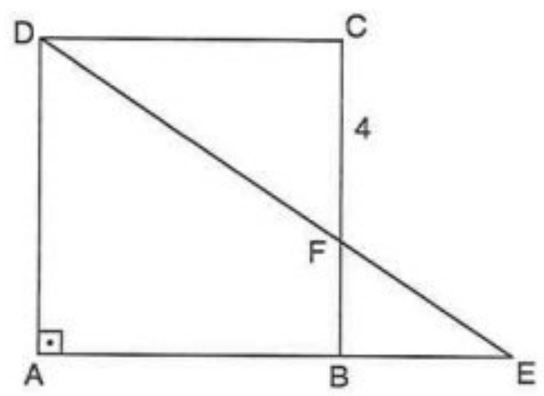


DEFG kare *(square)*
|EF| = 6 br
|AH| = 3 br

⇒ **|BC| = ?**

A) 3 B) 6 C) 9 D) 18 E) 36

4.

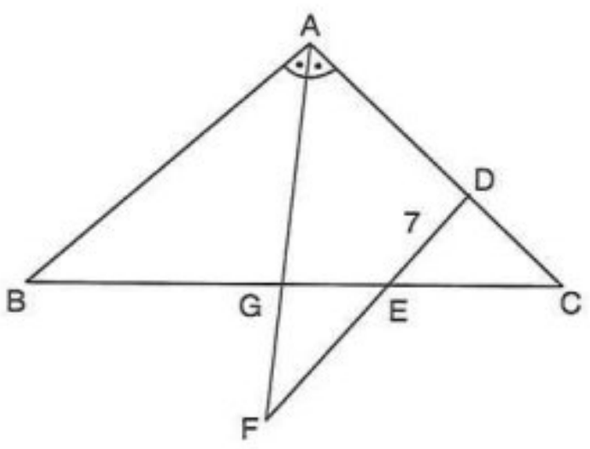


ABCD kare *(square)*
|AE| = 9 br
|CF| = 4 br

⇒ **|AD| = ?**

A) 2 B) 4 C) 6 D) 8 E) 10

5.

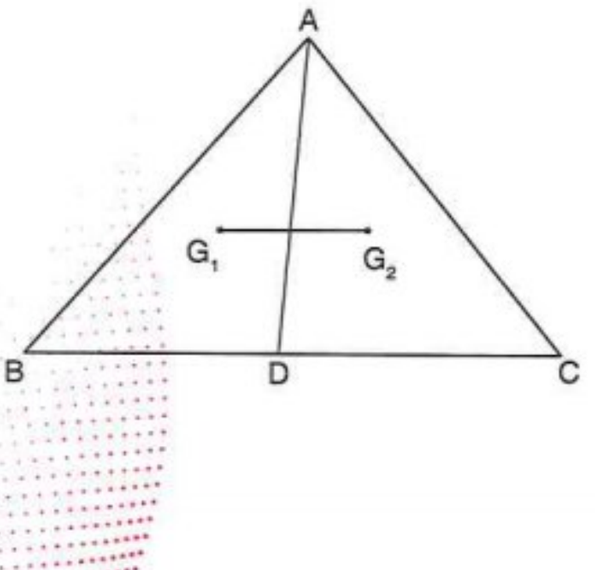


[DF] // [AB]
$m(\widehat{BAF}) = m(\widehat{FAC})$
|AG| = 4|GF|
|DE| = 7 br
|AB| = 20 br

⇒ **|AD| = ?**

A) 9 B) 10 C) 11 D) 12 E) 14

6.



G_1, ABD üçgeninin ağırlık merkezi
G_1, center of gravity ABD triangle's
G_2, ADC üçgeninin ağırlık merkezi
G_2, center of gravity ADC triangle's
$|G_1G_2| = 4$ br

⇒ **|BC| = ?**

A) 6 B) 12 C) 16 D) 18 E) 24

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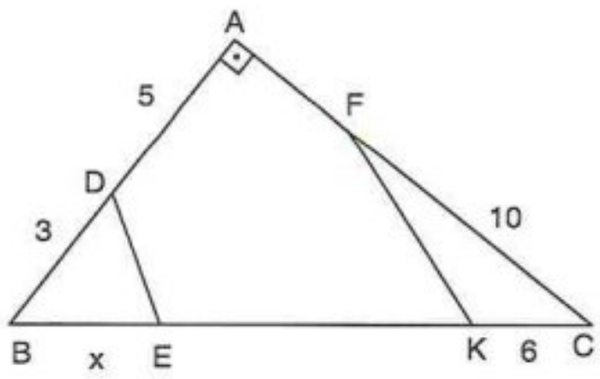
7.

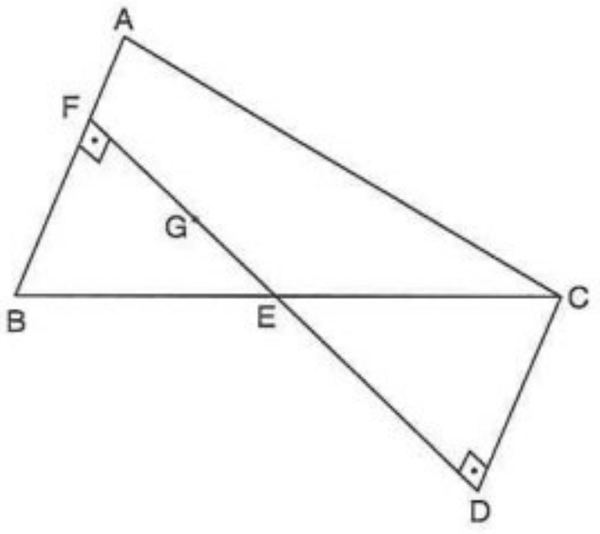


$[DE] /\!/ [FK]$
$|BD| = 3\,br$
$|AD| = |AF| = 5\,br$
$|KC| = 6\,br$
$|FC| = 10\,br$

$\Rightarrow |\mathbf{BE}| = \mathbf{x} = ?$

A) 3 B) 4 C) 5 D) 6 E) 7

8.

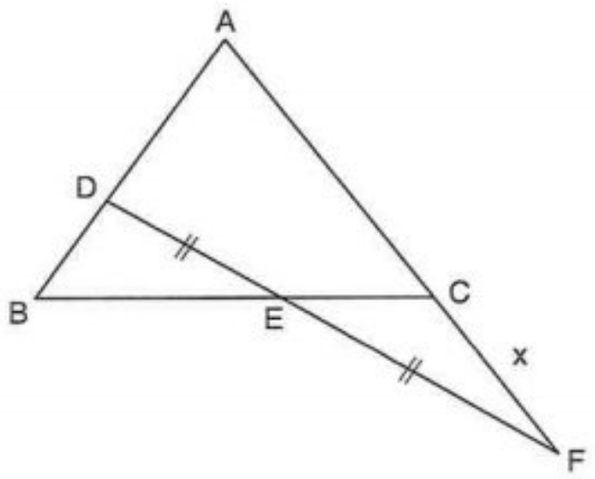


G, ağırlık merkezi
(center of gravity)
$[FD] \perp [AB]$
$[FD] \perp [DC]$
$|AF| = 3\,br$
$|CD| = 4\,br$

$\Rightarrow |\mathbf{BF}| = ?$

A) 5 B) 6 C) 7 D) 8 E) 9

9.

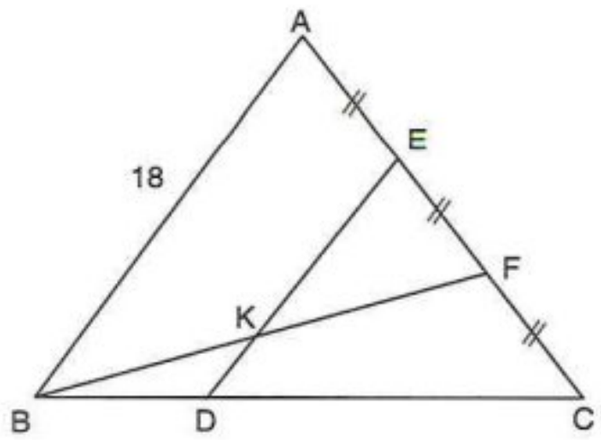


$|DE| = |EF|$
$|BE| = 3|EC|$
$|AF| = 18\,br$

$\Rightarrow |\mathbf{CF}| = \mathbf{x} = ?$

A) 3 B) 4 C) 6 D) 8 E) 9

10.

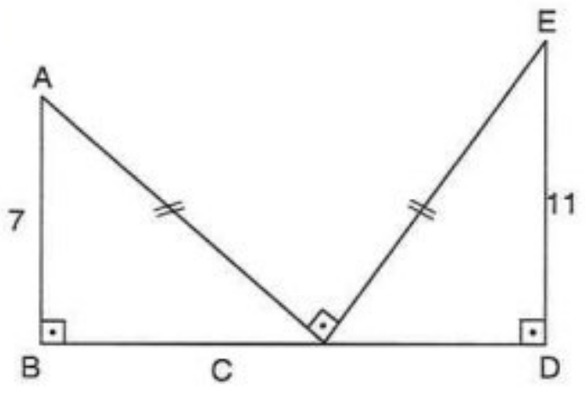


$[DE] /\!/ [AB]$
$|AE| = |EF| = |FC|$
$|AB| = 18\,br$

$\Rightarrow |\mathbf{KD}| = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

11.

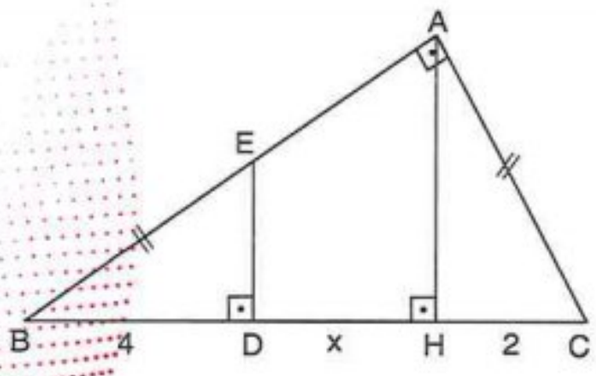


$[AB] \perp [BD]$
$[ED] \perp [BD]$
$[AC] \perp [CE]$
$|AC| = |CE|$
$|AB| = 7\,br$
$|ED| = 11\,br$

$\Rightarrow |\mathbf{BD}| = ?$

A) 7 B) 11 C) 14 D) 16 E) 18

12.



$[AB] \perp [AC]$
$[AH] \perp [BC]$
$[ED] \perp [BC]$
$|EB| = |AC|$
$|HC| = 2\,br$
$|BD| = 4\,br$

$\Rightarrow |\mathbf{DH}| = \mathbf{x} = ?$

A) 3 B) 4 C) 5 D) 6 E) 7

1. B	2. D	3. D	4. C	5. D	6. B
7. A	8. C	9. C	10. B	11. E	12. B

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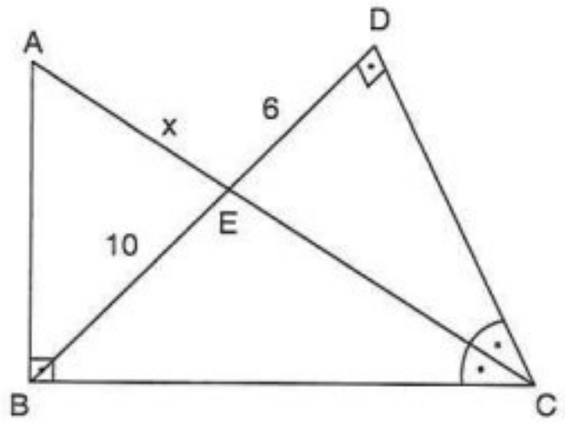
1.

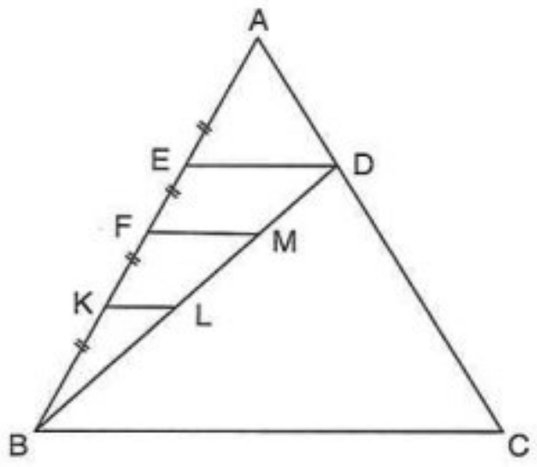


$[AB] \perp [BC]$
$[BD] \perp [DC]$
$m(\widehat{DCA}) = m(\widehat{ACB})$
$|ED| = 6\,br$
$|BE| = 10\,br$

$\Rightarrow |\mathbf{AE}| = \mathbf{x} = ?$

A) 4 B) $4\sqrt{5}$ C) 8 D) $8\sqrt{5}$ E) 10

2.

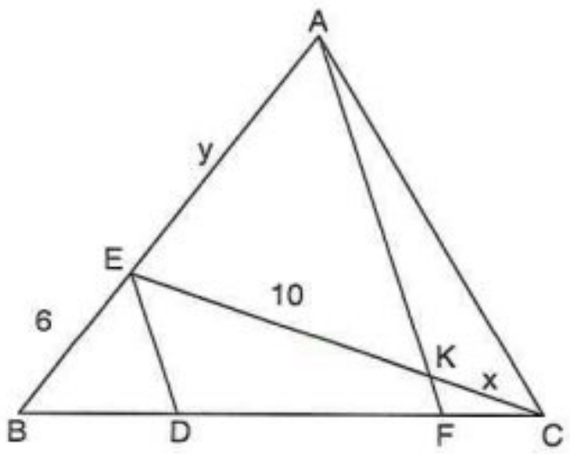


$[ED] /\!/ [FM] /\!/ [KL] /\!/ [BC]$
$|AE| = |EF| = |FK| = |KB|$
$|KL| = 2\,br$

$\Rightarrow |\mathbf{BC}| = ?$

A) 8 B) 9 C) 12 D) 18 E) 24

3.

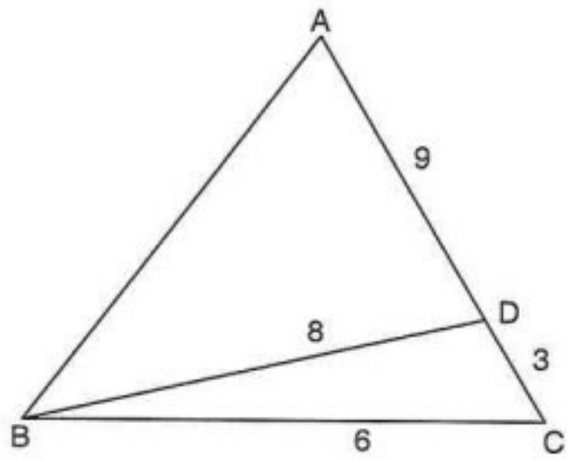


$[ED] /\!/ [AF]$
$2|BD| = 2|CF| = |DF|$
$|BE| = 6\,br$
$|EK| = 10\,br$
$|KC| = x$
$|AE| = y$

$\Rightarrow \mathbf{x + y} = ?$

A) 14 B) 15 C) 16 D) 17 E) 18

4.

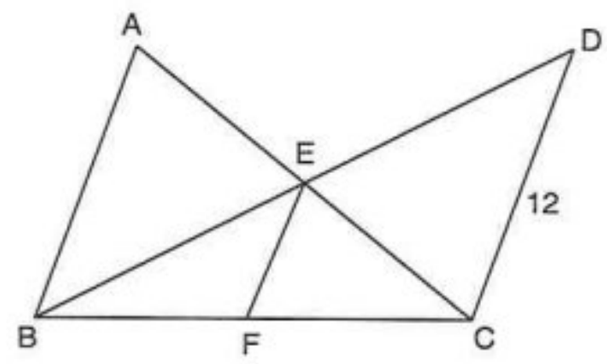


$|AD| = 9\,br$
$|BD| = 8\,br$
$|BC| = 6\,br$
$|DC| = 3\,br$

$\Rightarrow |\mathbf{AB}| = ?$

A) 12 B) 16 C) 18 D) 24 E) 32

5.

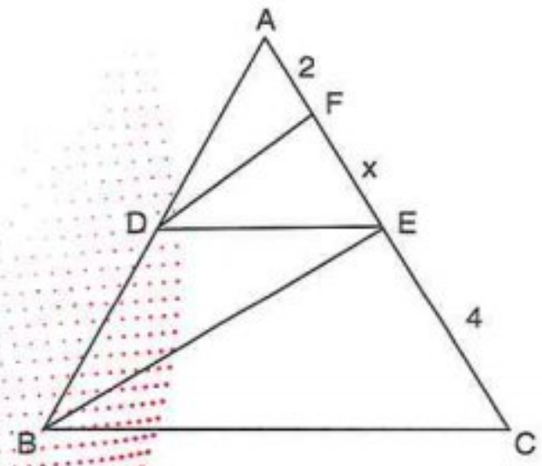


$[AB] /\!/ [EF] /\!/ [DC]$
$3|BF| = 2|FC|$
$|DC| = 12\,br$

$\Rightarrow |\mathbf{AB}| = ?$

A) 8 B) 9 C) 12 D) 16 E) 18

6.



$[DE] /\!/ [BC]$
$[DF] /\!/ [BE]$
$|AF| = 2\,br$
$|EC| = 4\,br$

$\Rightarrow |\mathbf{EF}| = \mathbf{x} = ?$

A) 2 B) 4 C) 6 D) 8 E) 10

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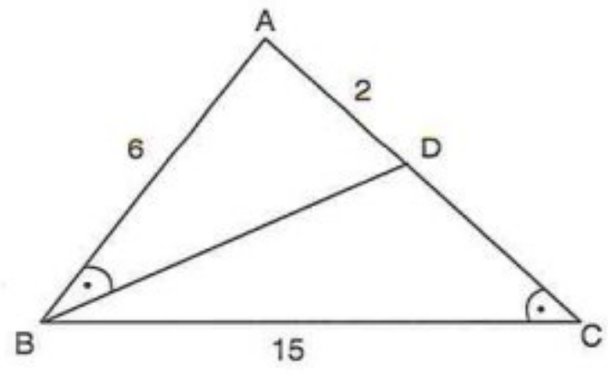
7.

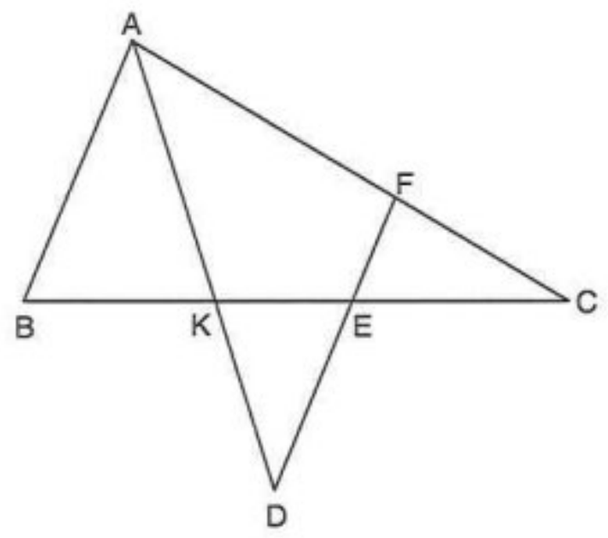


$m(\widehat{ABD}) = m(\widehat{ACB})$
$|AD| = 2$ br
$|AB| = 6$ br
$|BC| = 15$ br

⇒ **Çevre(BDC)=?**
(Perimeter (BDC))

A) 32 B) 34 C) 36 D) 38 E) 40

8.

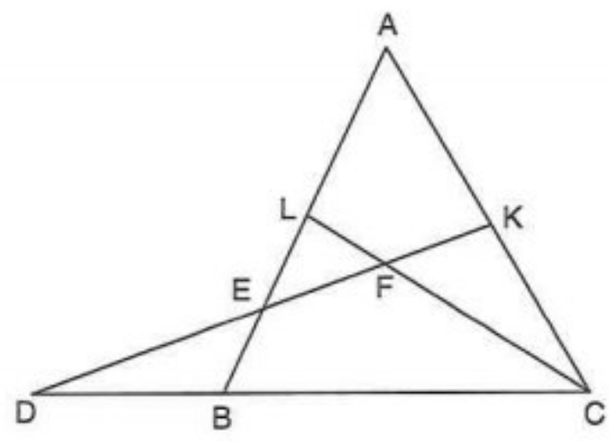


$[AB] \parallel [DF]$
$|DE| = 2|EF|$
$|KE| = 2$ br
$|BK| = 3$ br

⇒ $|\mathbf{EC}| = ?$

A) 1 B) $\frac{1}{2}$ C) 2 D) $\frac{5}{2}$ E) 3

9.

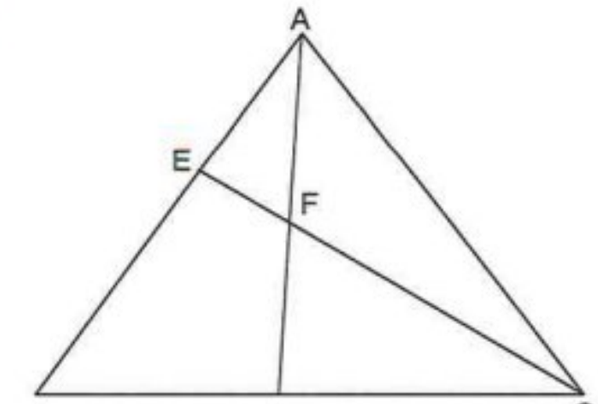


$|BL| = |AL|$
$|AK| = |KC|$
$5|LF| = 2|FC|$
$|BD| = 2$ br

⇒ $|\mathbf{BC}| = ?$

A) 4 B) 6 C) 8 D) 10 E) 12

10.

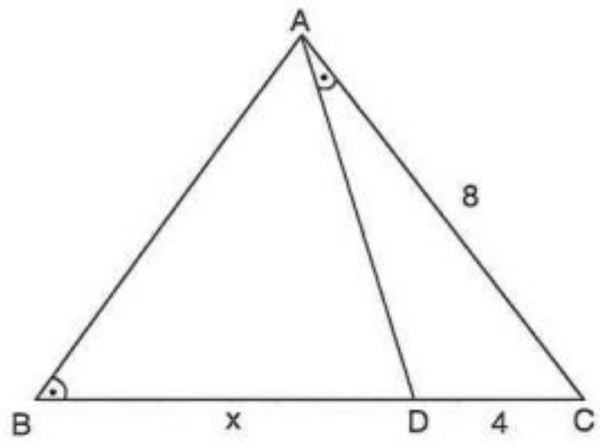


$2|AE| = |EB|$
$5|EF| = 3|FC|$

⇒ $\frac{|\mathbf{BD}|}{|\mathbf{BC}|} = ?$

A) $\frac{9}{14}$ B) $\frac{3}{5}$ C) $\frac{7}{13}$ D) $\frac{5}{6}$ E) $\frac{8}{15}$

11.

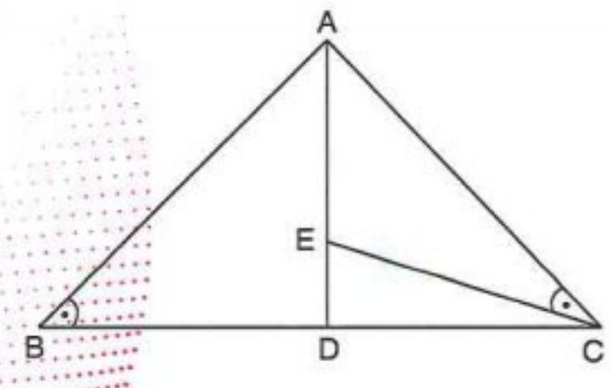


$m(\widehat{ABC}) = m(\widehat{DAC})$
$|DC| = 4$ br
$|AC| = 8$ br

⇒ $|\mathbf{BD}| = \mathbf{x} = ?$

A) 8 B) 10 C) 12 D) 16 E) 20

12.



$m(\widehat{ABC}) = m(\widehat{ECA})$
$|EC| = |DC|$
$|AB| = 8$ br
$|BC| = 7$ br
$|AC| = 6$ br

⇒ $|\mathbf{EC}| = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

1. B	2. E	3. D	4. B	5. A	6. A
7. C	8. D	9. C	10. A	11. C	12. C

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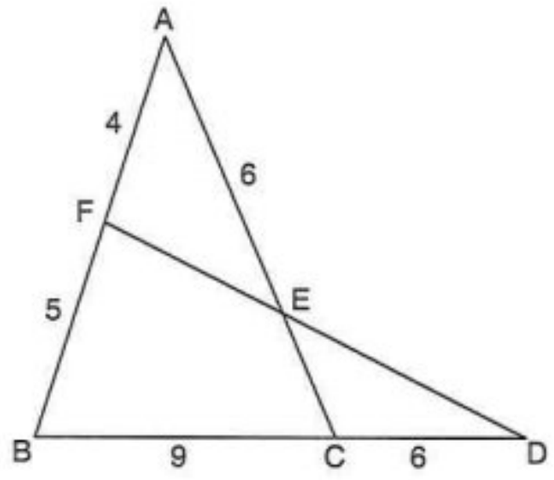
1.



$|AF| = 4$ br

$|BF| = 5$ br

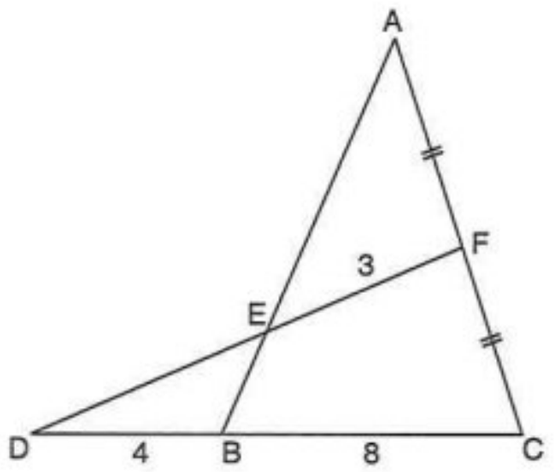
$|AE| = |CD| = 6$ br

$|BC| = 9$ br

⇒ $|EC| = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

2.



$|AF| = |FC|$

$|EF| = 3$ br

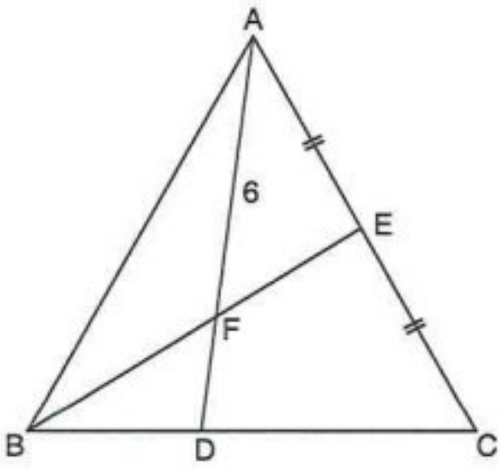
$|DB| = 4$ br

$|BC| = 8$ br

⇒ $|DE| = ?$

A) 12 B) 9 C) 8 D) 6 E) 3

3.



$\frac{|BD|}{|DC|} = \frac{1}{3}$

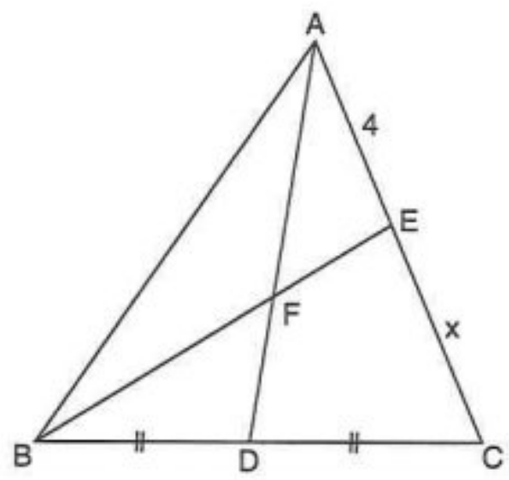
$|AE| = |EC|$

$|AF| = 6$ br

⇒ $|FD| = ?$

A) 1 B) $\frac{3}{2}$ C) 2 D) $\frac{5}{2}$ E) 3

4.



$|BD| = |DC|$

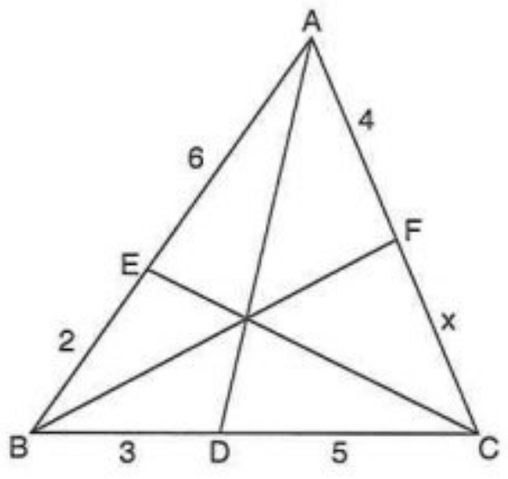
$2|BF| = 3|FE|$

$|AE| = 4$ br

⇒ $|EC| = x = ?$

A) 2 B) 3 C) 4 D) 6 E) 8

5.



$|EB| = 2$ br

$|BD| = 3$ br

$|AF| = 4$ br

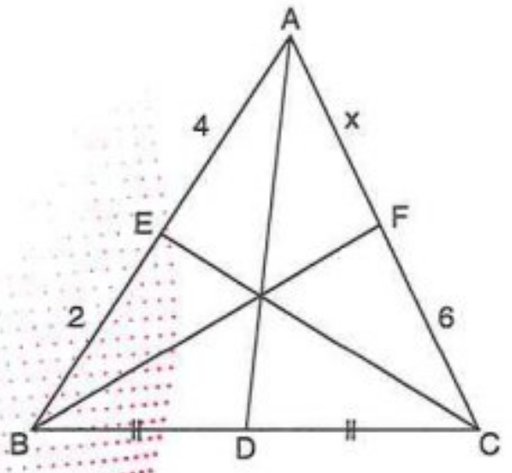
$|DC| = 5$ br

$|AE| = 6$ br

⇒ $|FC| = x = ?$

A) $\frac{10}{3}$ B) $\frac{10}{9}$ C) $\frac{20}{9}$ D) 6 E) 7

6.



$|BD| = |DC|$

$|EB| = 2$ br

$|AE| = 4$ br

$|FC| = 6$ br

⇒ $|AF| = x = ?$

A) 3 B) 4 C) 6 D) 8 E) 12

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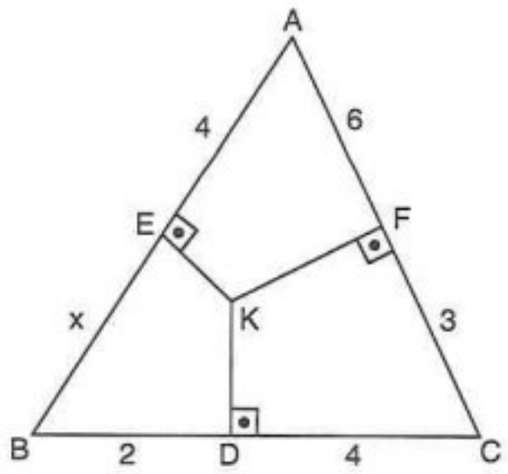
7.



$[KE] \perp [AB]$

$[KD] \perp [BC]$

$[KF] \perp [AC]$

$|BD| = 2$ br

$|FC| = 3$ br

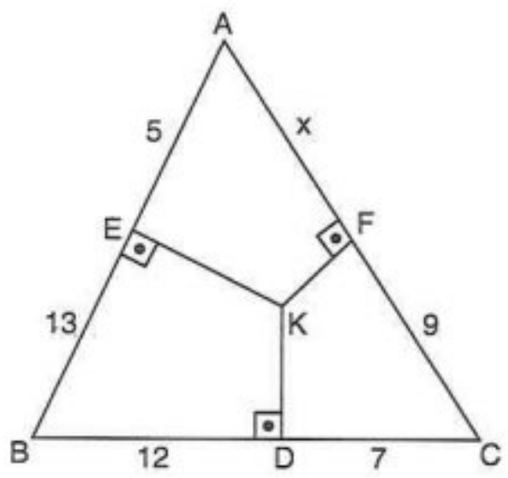
$|AE| = |DC| = 4$ br

$|AF| = 6$ br

$\Rightarrow |EB| = x = ?$

A) $\sqrt{22}$ B) $\sqrt{23}$ C) $2\sqrt{6}$ D) 5 E) $\sqrt{26}$

8.



$[KE] \perp [AB]$

$[KD] \perp [BC]$

$[KF] \perp [AC]$

$|AE| = 5$ br

$|DC| = 7$ br

$|FC| = 9$ br

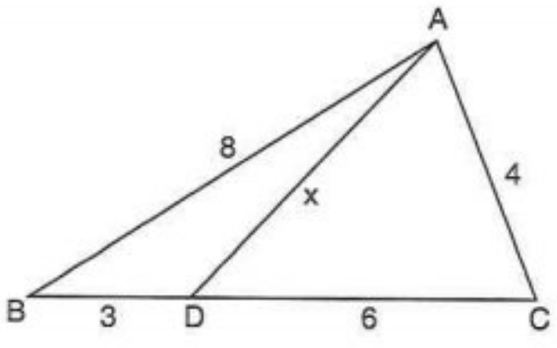
$|BD| = 12$ br

$|EB| = 13$ br

$\Rightarrow |AF| = x = ?$

A) $2\sqrt{6}$ B) 5 C) $2\sqrt{7}$ D) $4\sqrt{2}$ E) $4\sqrt{3}$

9.



$|BD| = 3$ br

$|AC| = 4$ br

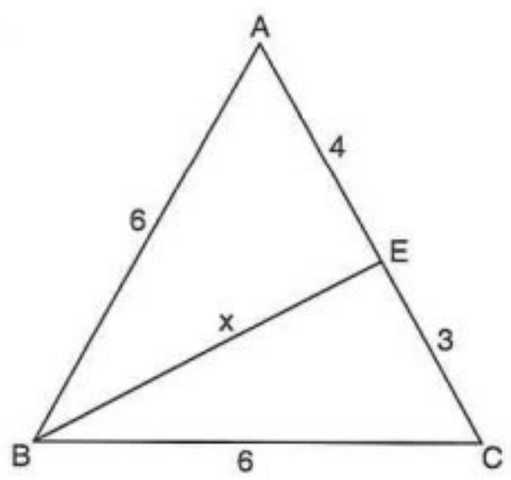
$|DC| = 6$ br

$|AB| = 8$ br

$\Rightarrow |AD| = x = ?$

A) $\sqrt{26}$ B) $2\sqrt{7}$ C) $\sqrt{30}$ D) $4\sqrt{2}$ E) $4\sqrt{3}$

10.



$|EC| = 3$ br

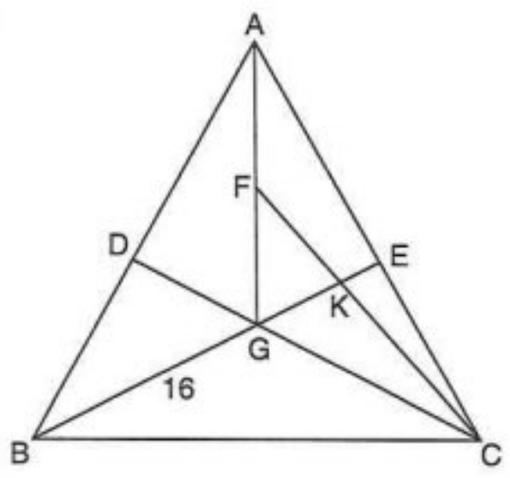
$|AE| = 4$ br

$|AB| = |BC| = 6$ br

$\Rightarrow |BE| = x = ?$

A) 4 B) $3\sqrt{2}$ C) $2\sqrt{5}$ D) $2\sqrt{6}$ E) 5

11.



G, ağırlık merkezi
(center of gravity)

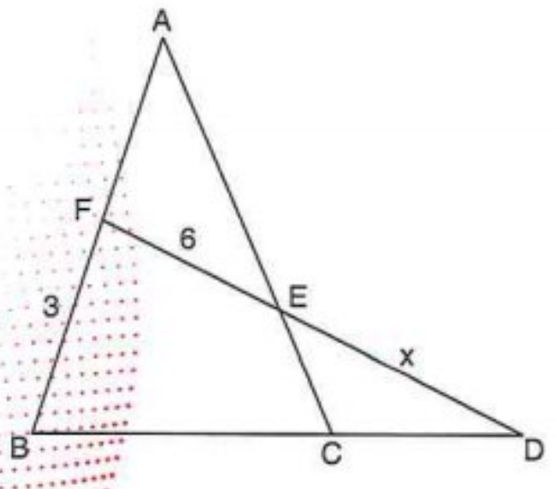
$3|AF| = 2|FG|$

$|BG| = 16$ br

$\Rightarrow |KE| = ?$

A) 2 B) 4 C) 6 D) 8 E) 10

12.



$|BC| = 3|CD|$

$|AC| = 5|EC|$

$|BF| = 3$ br

$|FE| = 6$ br

$\Rightarrow |ED| = x = ?$

A) 2 B) 3 C) 4 D) 6 E) 9

1. B	2. E	3. B	4. A	5. C	6. E
7. B	8. D	9. C	10. D	11. A	12. C

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ÜÇGENDE ALAN

AREAS OF TRIANGLES

KONU KAVRAMA TESTİ
Thread Grip Test

ZİHİN HARİTASI
Mind Map

7
TEST
Tests

144
SORU
Questions

YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS

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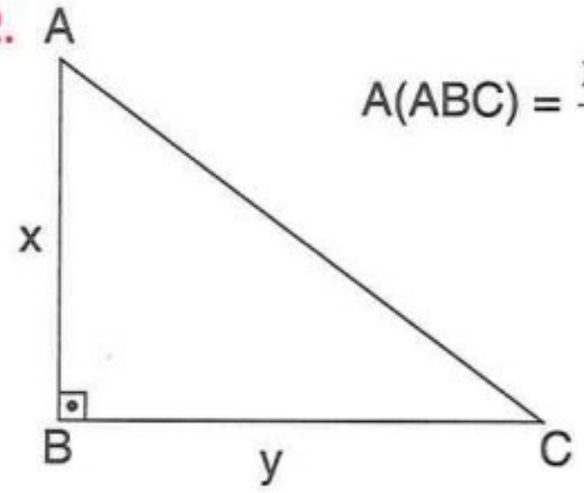
ÜÇGENDE ALAN
AREAS OF TRIANGLES

CANER eğitim kurumları

1.

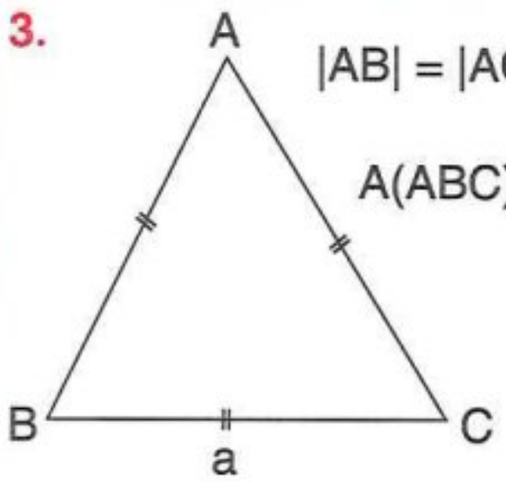
$$A(ABC) = \frac{a \cdot h}{2}$$

2.



$$A(ABC) = \frac{x \cdot y}{2}$$

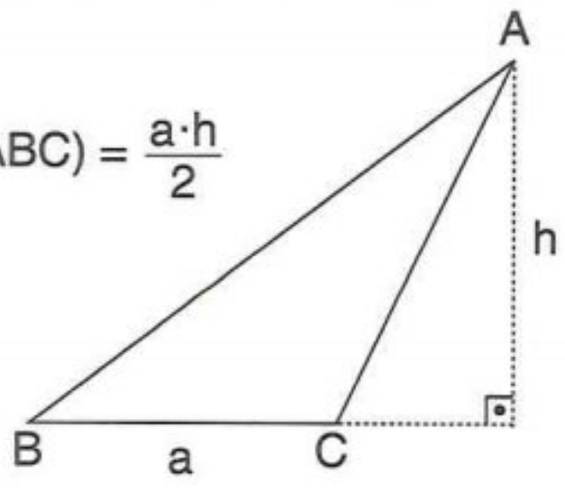
3.



$$|AB| = |AC| = |BC|$$

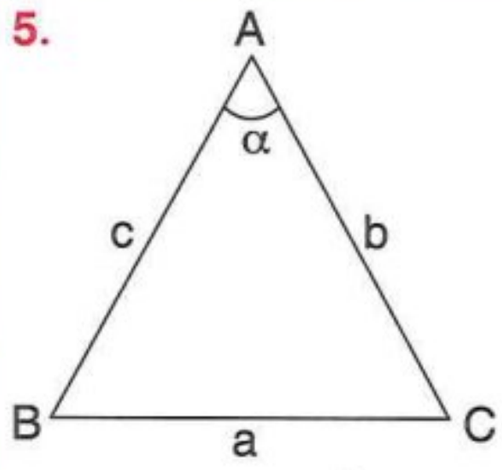
$$A(ABC) = \frac{a^2\sqrt{3}}{4}$$

4.



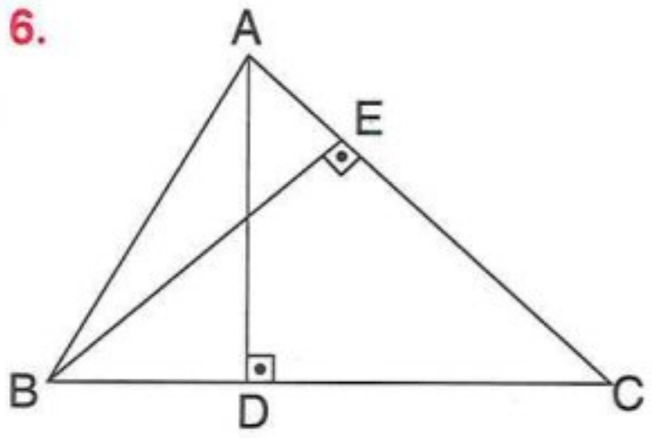
$$A(ABC) = \frac{a \cdot h}{2}$$

5.



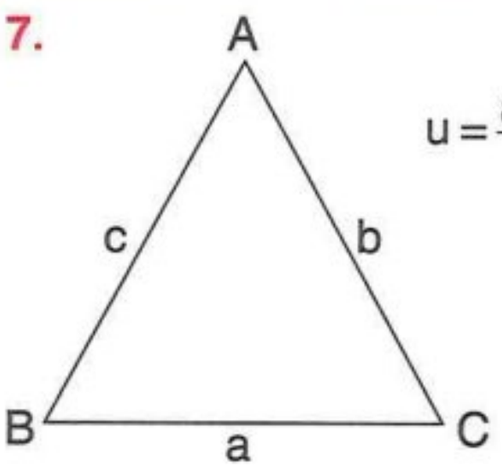
$$A(ABC) = \frac{1}{2} \cdot b \cdot c \cdot \sin\alpha$$

6.



$$A(ABC) = \frac{|BC| \cdot |AD|}{2} = \frac{|AC| \cdot |BE|}{2}$$

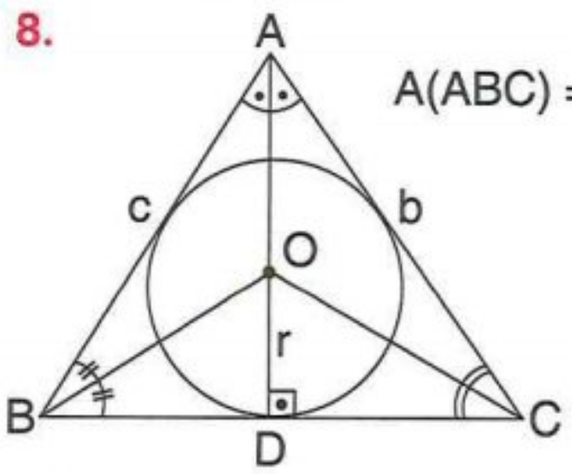
7.



$$u = \frac{a+b+c}{2}$$

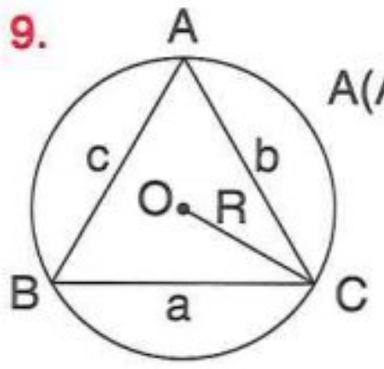
$$A(ABC) = \sqrt{u \cdot (u-a) \cdot (u-b) \cdot (u-c)}$$

8.



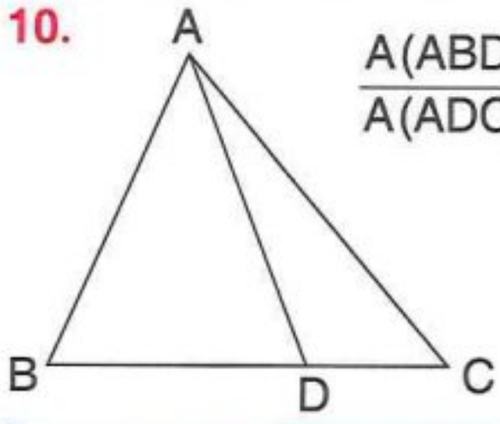
$$A(ABC) = u \cdot r$$

9.



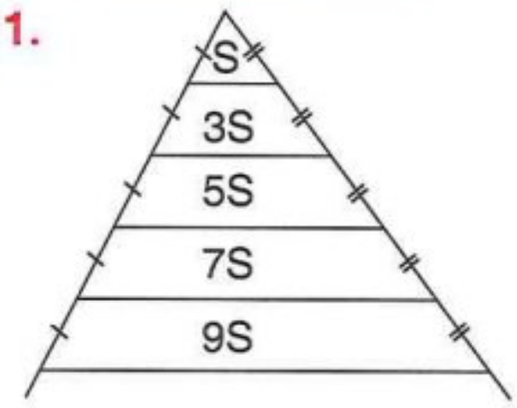
$$A(ABC) = \frac{a \cdot b \cdot c}{4R}$$

10.

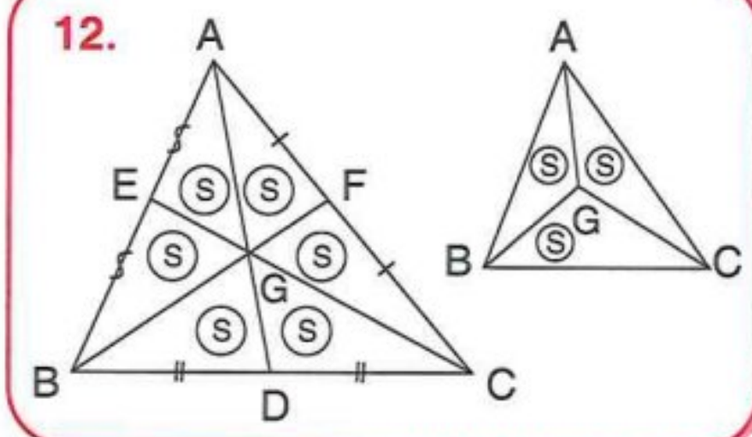


$$\frac{A(ABD)}{A(ADC)} = \frac{|BD|}{|DC|}$$

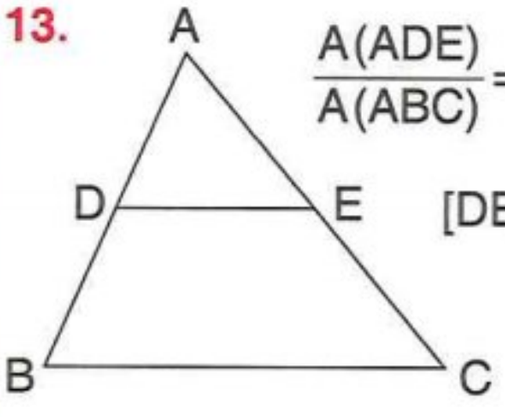
11.



12.



13.



$$\frac{A(ADE)}{A(ABC)} = \left(\frac{|DE|}{|BC|}\right)^2$$

$[DE] \,//\, [BC]$

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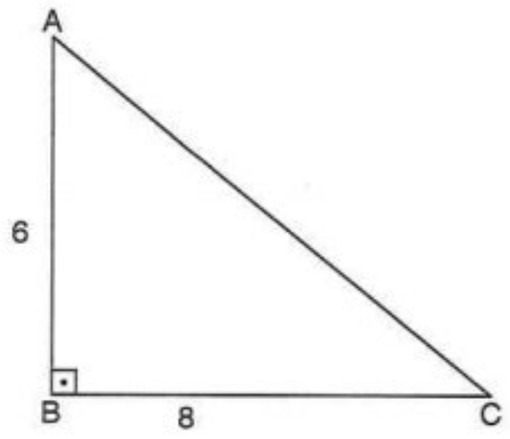
1.

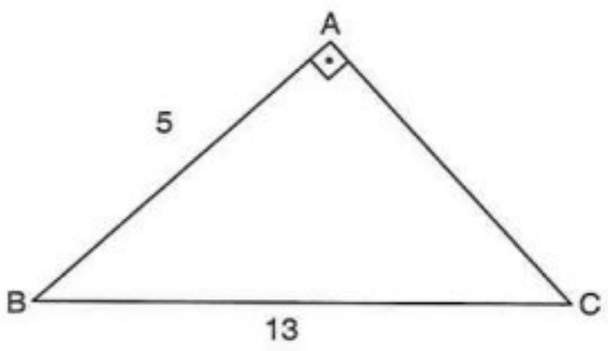


$[AB] \perp [BC]$
$|AB| = 6$ br
$|BC| = 8$ br

⇒ **A(ABC) = ?**

A) 18 B) 24 C) 36 D) 42 E) 48

2.

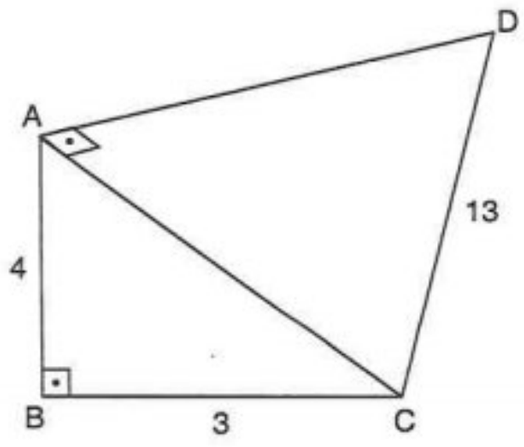


$[AB] \perp [AC]$
$|AB| = 5$ br
$|BC| = 13$ br

⇒ **A(ABC) = ?**

A) 20 B) 30 C) 40 D) 50 E) 60

3.

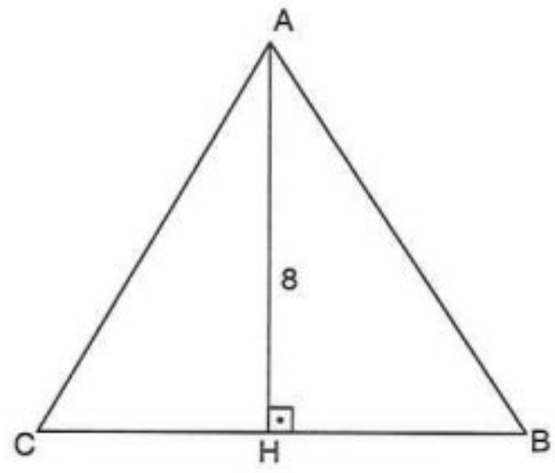


$[AB] \perp [BC]$
$[AC] \perp [AD]$
$|BC| = 3$ br
$|AB| = 4$ br
$|DC| = 13$ br

⇒ **A(ABCD) = ?**

A) 24 B) 30 C) 36 D) 42 E) 48

4.

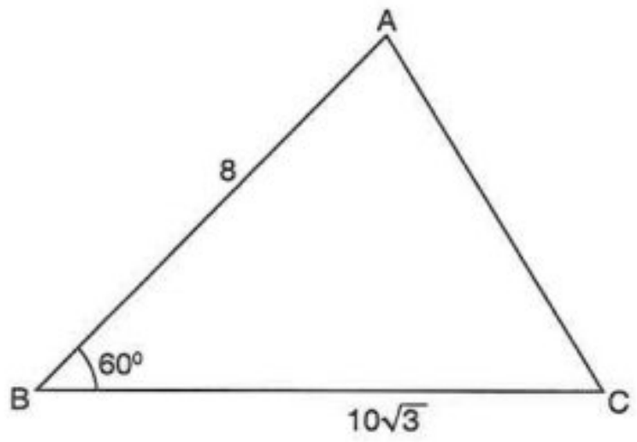


$[AH] \perp [BC]$
$|AH| = 8$ br
$|BC| = 10$ br

⇒ **A(ABC) = ?**

A) 40 B) 50 C) 60 D) 70 E) 80

5.

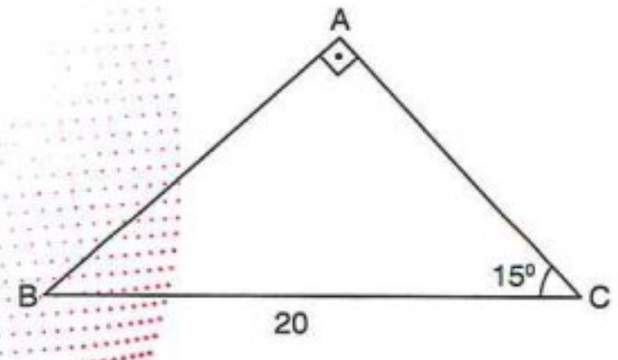


$m(\widehat{ABC}) = 60°$
$|AB| = 8$ br
$|BC| = 10\sqrt{3}$ br

⇒ **A(ABC) = ?**

A) 60 B) 80 C) $60\sqrt{3}$ D) $80\sqrt{3}$ E) 100

6.



$[AB] \perp [AC]$
$m(\widehat{ACB}) = 15°$
$|BC| = 20$ br

⇒ **A(ABC) = ?**

A) 40 B) 50 C) 60 D) 80 E) 100

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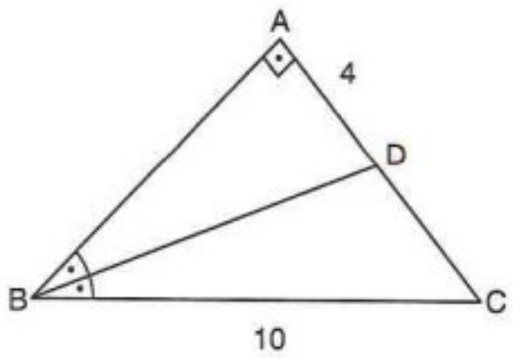
7.



$[AB] \perp [AC]$

[BD] açıortay (bisector)

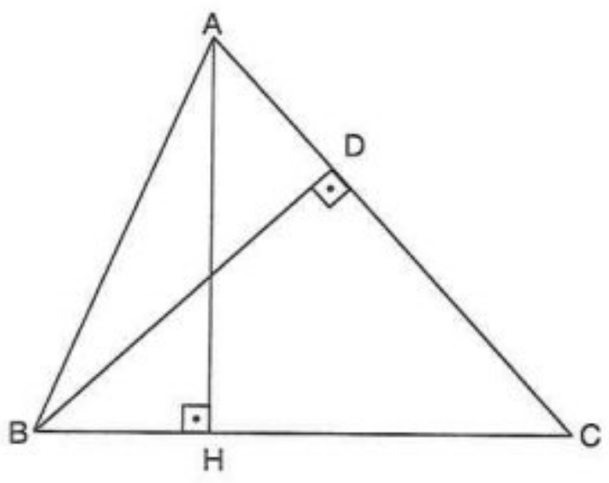
$|AD| = 4$ br

$|BC| = 10$ br

⇒ **A(BDC) = ?**

A) 10 B) 20 C) 30 D) 40 E) 60

8.



$[AH] \perp [BC]$

$[BD] \perp [AC]$

$|BC| = 10$ br

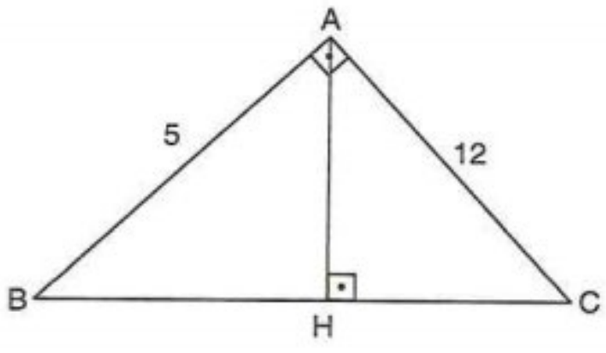
$|AC| = 8$ br

$|AH| = 4$ br

⇒ **|BD| = ?**

A) 4 B) 5 C) 6 D) 8 E) 10

9.



$[AB] \perp [AC]$

$[AH] \perp [BC]$

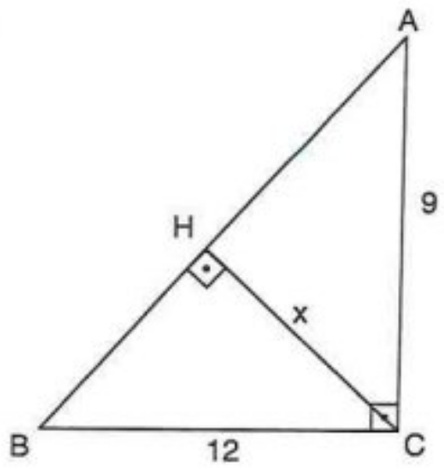
$|AB| = 5$ br

$|AC| = 12$ br

⇒ **|AH| = ?**

A) $\frac{24}{13}$ B) $\frac{39}{17}$ C) $\frac{54}{13}$ D) $\frac{72}{14}$ E) $\frac{60}{13}$

10.



$[AC] \perp [BC]$

$[CH] \perp [AB]$

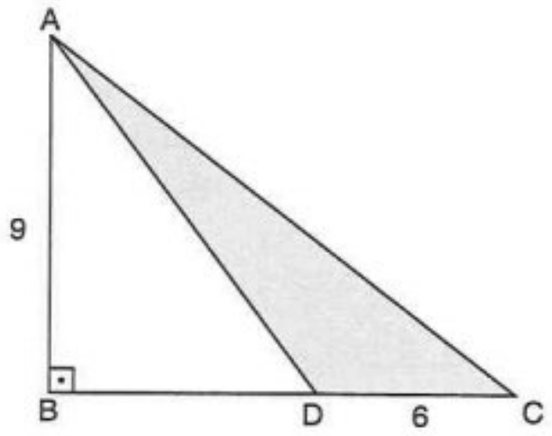
$|AC| = 9$ br

$|BC| = 12$ br

⇒ **$|CH| = x = ?$**

A) 9 B) 12 C) $\frac{36}{5}$ D) $\frac{40}{7}$ E) $\frac{36}{13}$

11.



$[AB] \perp [BC]$

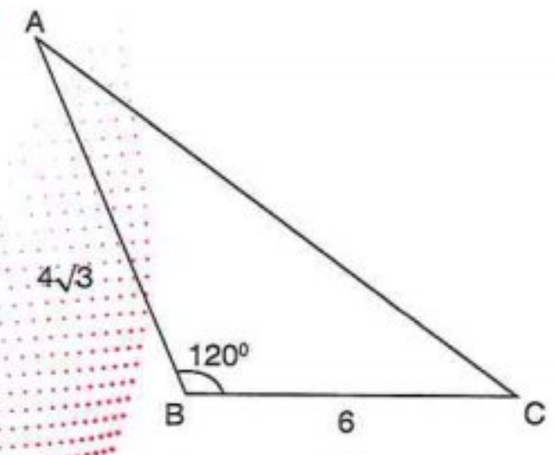
$|DC| = 6$ br

$|AB| = 9$ br

⇒ **A(ADC) = ?**

A) 18 B) 24 C) 27 D) 36 E) 54

12.



$m(\widehat{ABC}) = 120°$

$|AB| = 4\sqrt{3}$ br

$|BC| = 6$ br

⇒ **A(ABC) = ?**

A) 12 B) $12\sqrt{3}$ C) 18 D) $18\sqrt{3}$ E) 24

1. B	2. B	3. C	4. A	5. A	6. B
7. B	8. B	9. E	10. C	11. C	12. C

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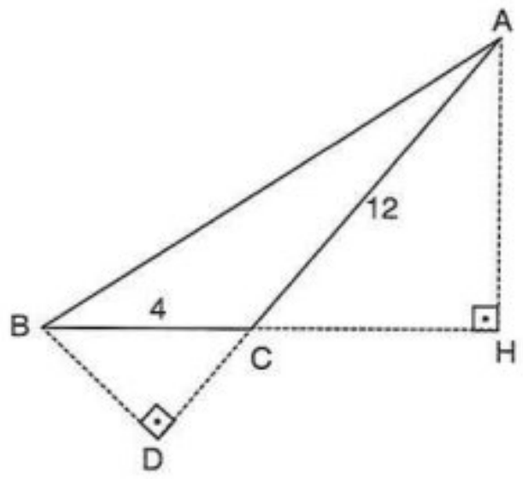
13.

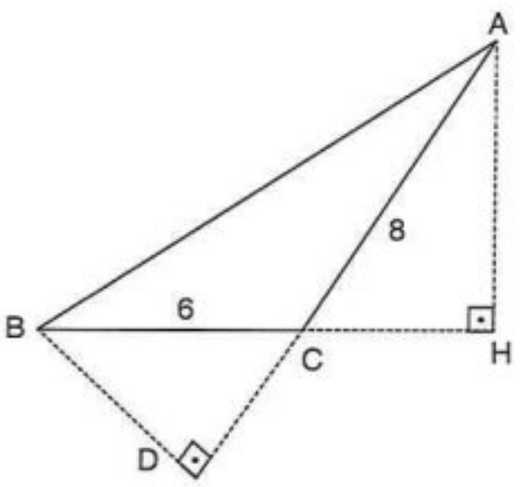


$[AH] \perp [BH]$
$[BD] \perp [AD]$
$|AC| = 12$ br
$|AH| = 6$ br
$|BC| = 4$ br

⇒ $|BD| = ?$

A) 2 B) 3 C) 8 D) 10 E) 12

14.

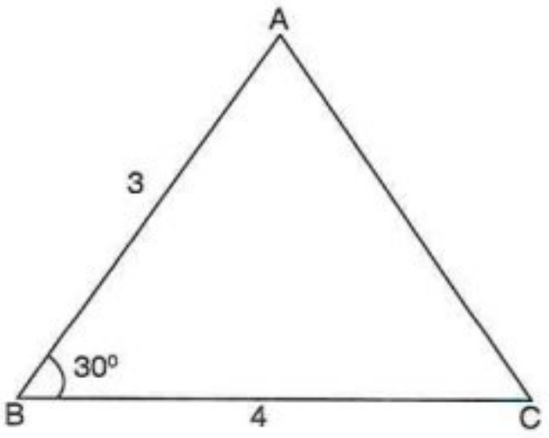


$[AH] \perp [BH]$
$[BD] \perp [AD]$
$|AC| = 8$ br
$|BC| = 6$ br
$A(ABC) = 12$ br

⇒ $|AH| + |BD| = ?$

A) 5 B) 7 C) 9 D) 10 E) 12

15.

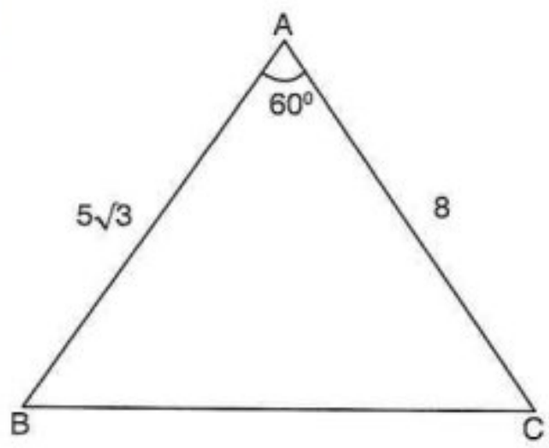


$m(\widehat{ABC}) = 30°$
$|AB| = 3$ br
$|BC| = 4$ br

⇒ $A(ABC) = ?$

A) 3 B) 4 C) 6 D) 9 E) 12

16.

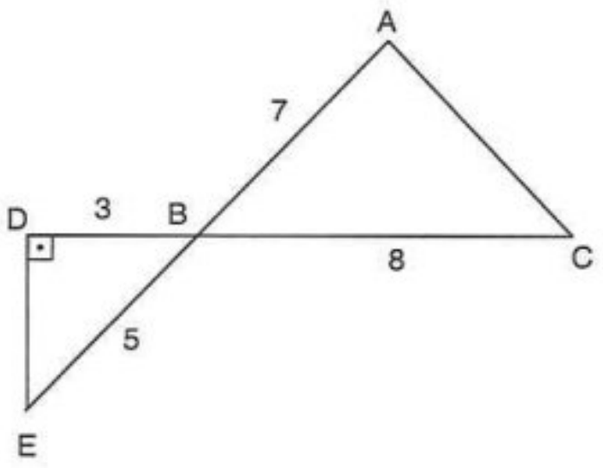


$m(\widehat{BAC}) = 60°$
$|AB| = 5\sqrt{3}$ br
$|AC| = 8$ br

⇒ $A(ABC) = ?$

A) 20 B) 30 C) 40 D) 50 E) 60

17.

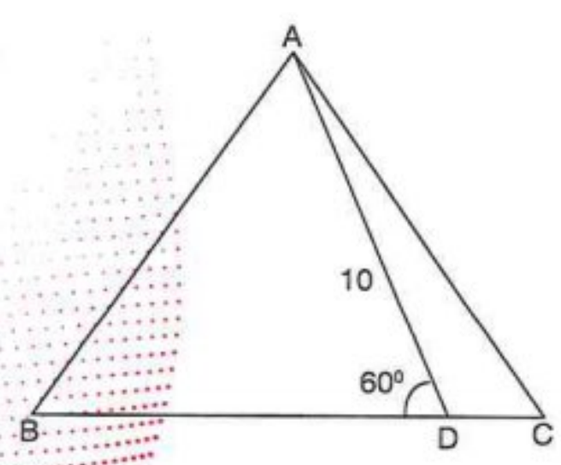


$[DE] \perp [DC]$
$|BC| = 8$ br
$|AB| = 7$ br
$|BE| = 5$ br
$|BD| = 3$ br

⇒ $A(ABC) = ?$

A) 74 B) $\frac{112}{3}$ C) $\frac{112}{5}$ D) 82 E) 91

18.



$m(\widehat{ADB}) = 60°$
$|AD| = 10$ br
$|BC| = 12\sqrt{3}$ br

⇒ $A(ABC) = ?$

A) 40 B) 60 C) 80 D) 90 E) 100

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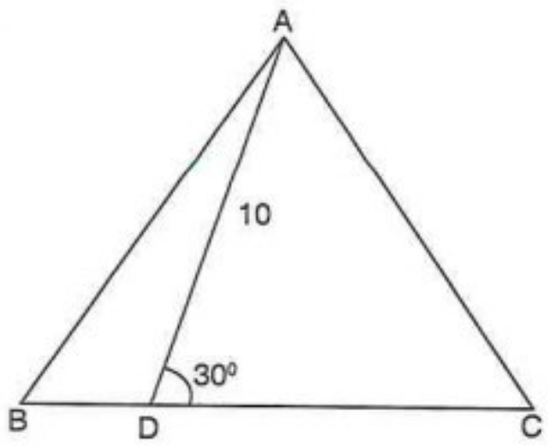
19.

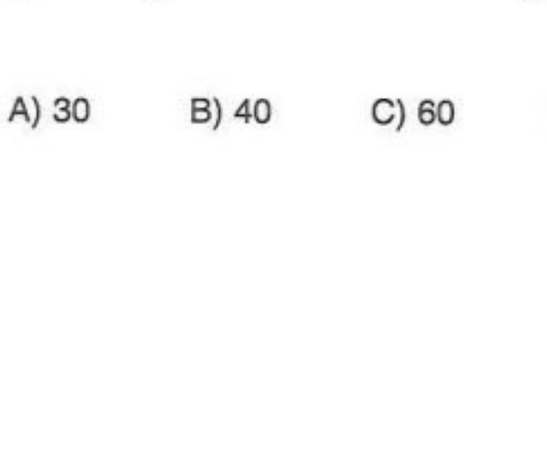


$m(A\widehat{D}C) = 30°$
$|AD| = 10\,br$
$|BC| = 12\,br$

⇒ **A(ABC) = ?**

A) 30 B) 40 C) 60 D) 90 E) 120

20.

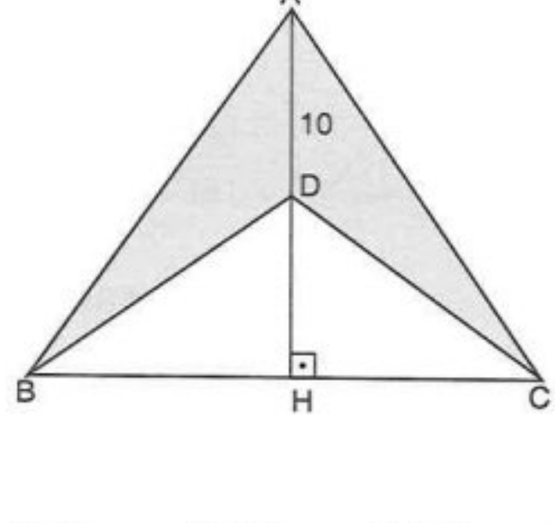


$[AH] \perp [BC]$
$|AD| = 10\,br$
$|BC| = 18\,br$

⇒ **A(ABDC) = ?**

A) 45 B) 50 C) 60 D) 75 E) 90

21.

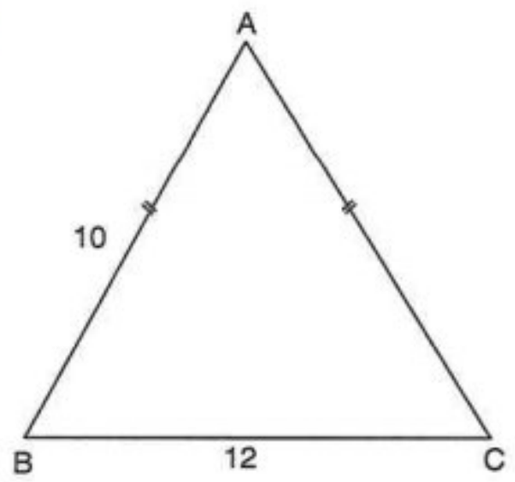


$m(A\widehat{D}B) = 60°$
$|AE| = 5\,br$
$|BC| = 8\sqrt{3}\,br$

⇒ **A(ABEC) = ?**

A) 15 B) 30 C) 40 D) 45 E) 60

22.

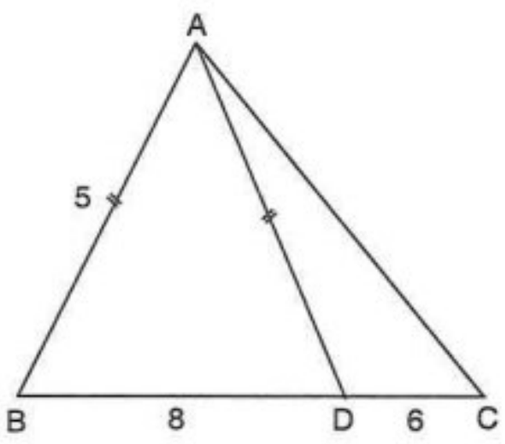


$|AB| = |AC| = 10\,br$
$|BC| = 12\,br$

⇒ **A(ABC) = ?**

A) 24 B) 32 C) 36 D) 48 E) 64

23.

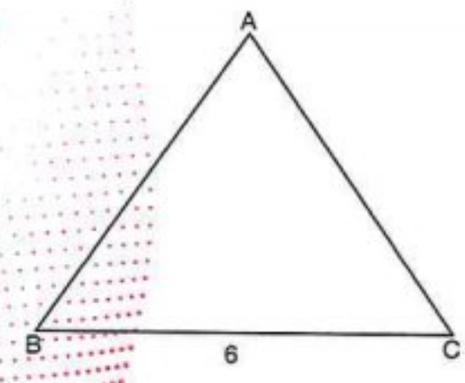


$|AB| = |AD| = 5\,br$
$|DC| = 6\,br$
$|BD| = 8\,br$

⇒ **A(ADC) = ?**

A) 6 B) 9 C) 12 D) 18 E) 24

24.



$|AB| = |BC| = |AC| = 6\,br$

⇒ **A(ABC) = ?**

A) $6\sqrt{3}$ B) $9\sqrt{3}$ C) $12\sqrt{3}$ D) $15\sqrt{3}$ E) $18\sqrt{3}$

13. A	14. B	15. A	16. B	17. C	18. D
19. A	20. E	21. B	22. D	23. B	24. B

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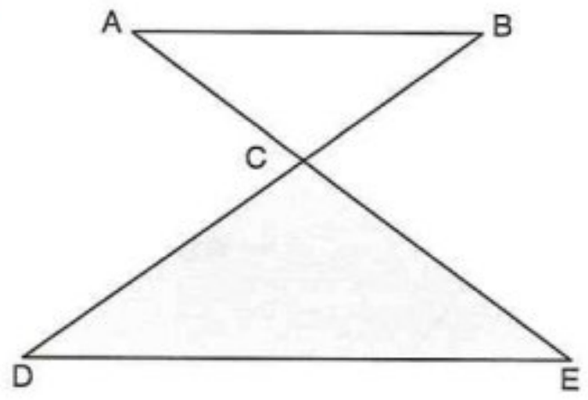
25.

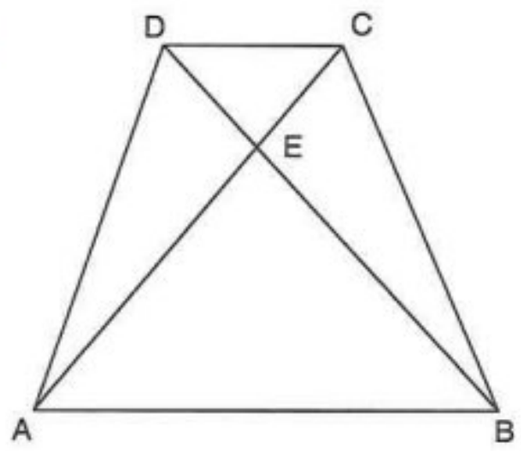


$[AB] \mathbin{/\!/} [DE]$
$4|AB| = 3|DE|$
$A(ABC) = 9\,br^2$

⇒ **A(DCE) = ?**

A) 12 B) 16 C) 18 D) 24 E) 27

26.

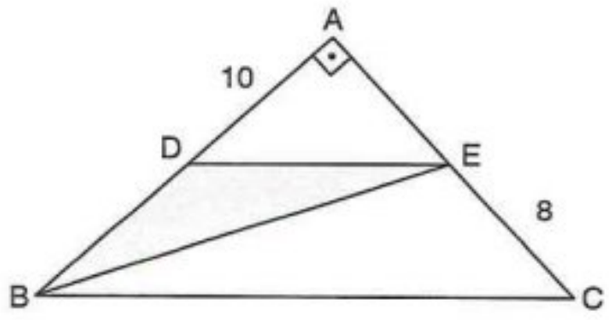


$[DC] \mathbin{/\!/} [AB]$
$3|DC| = 2|AB|$
$A(AEB) = 18\,br^2$

⇒ **A(ABCD) = ?**

A) 30 B) 36 C) 42 D) 48 E) 50

27.

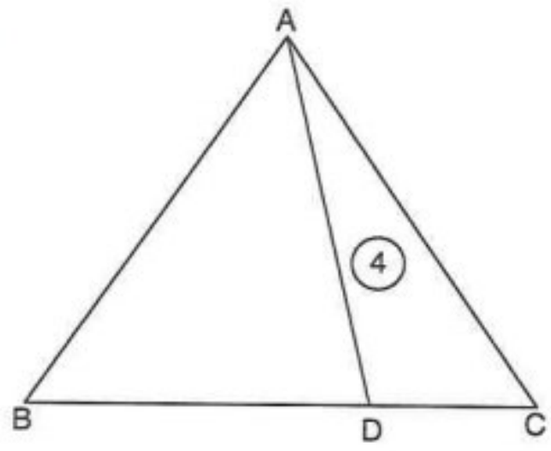


$[DE] \mathbin{/\!/} [BC]$
$|EC| = 8\,br$
$|AD| = 10\,br$

⇒ **A(BDE) = ?**

A) 20 B) 30 C) 40 D) 50 E) 60

28.

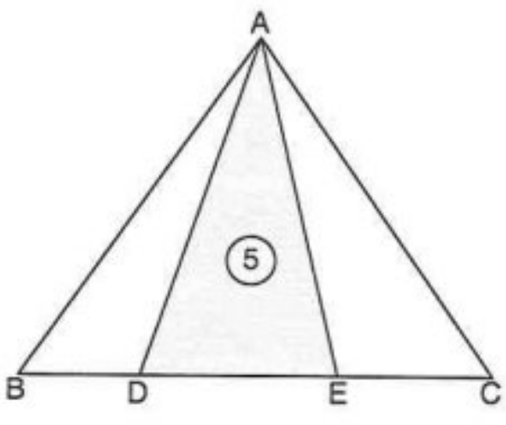


$3|CD| = |BD|$
$A(ADC) = 4\,br^2$

⇒ **A(ABD) = ?**

A) 8 B) 10 C) 12 D) 16 E) 20

29.



$6|DE| = 3|BD| = 2|EC|$
$A(ADE) = 5\,br$

⇒ **A(ABC) = ?**

A) 20 B) 30 C) 35 D) 40 E) 45

30.

$|BD| = |DC|$
$2|AE| = 3|EB|$
$A(ADC) = 10\,br$

⇒ **A(AED) = ?**

A) 4 B) 5 C) 6 D) 7 E) 8

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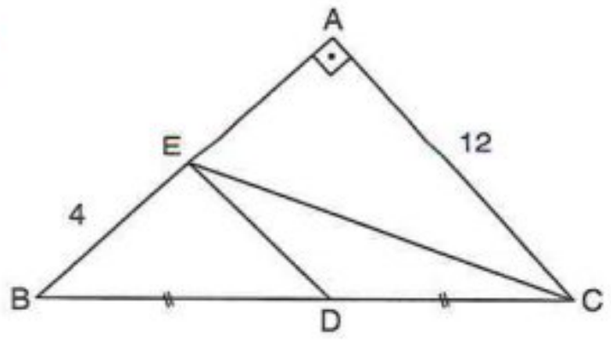
31.

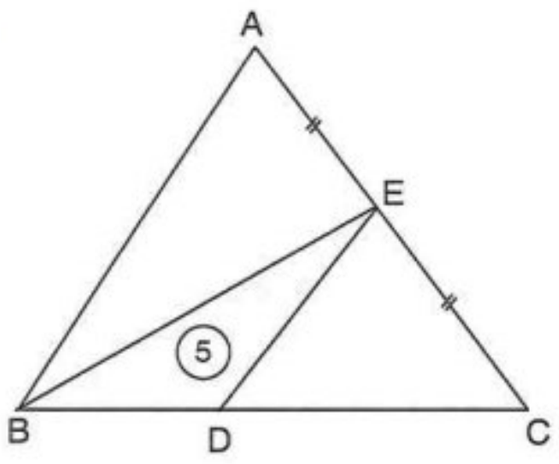


$[AB] \perp [AC]$
$|BD| = |DC|$
$|AC| = 12\,br$
$|EB| = 4\,br$

⇒ **A(DEC) = ?**

A) 6 B) 9 C) 12 D) 18 E) 24

32.

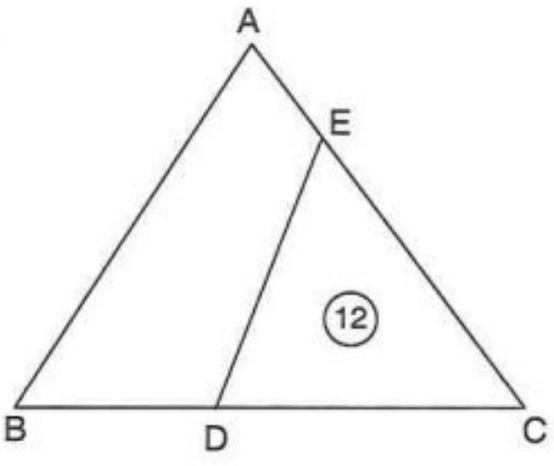


$|AE| = |EC|$
$2|BD| = |DC|$
$A(BED) = 5\,br^2$

⇒ **A(ABC) = ?**

A) 15 B) 20 C) 30 D) 40 E) 45

33.

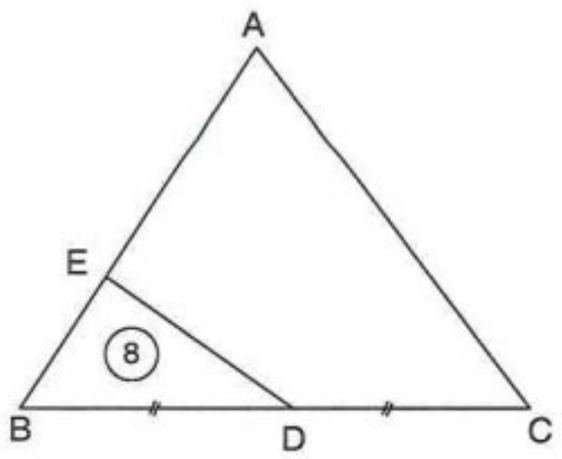


$2|AE| = |EC|$
$2|DC| = 3|BD|$
$A(DEC) = 12\,br^2$

⇒ **A(ABC) = ?**

A) 20 B) 25 C) 28 D) 30 E) 40

34.

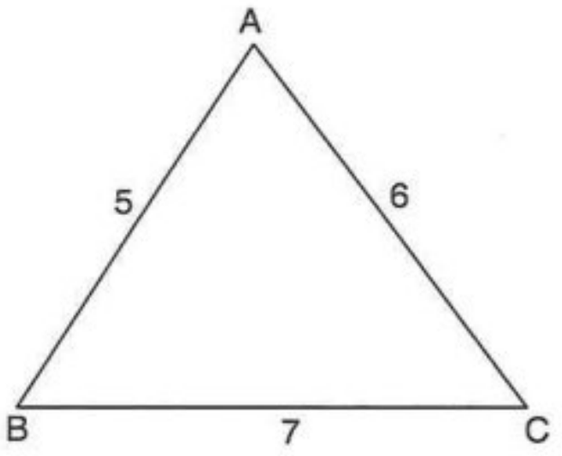


$|BD| = |DC|$
$2|AE| = 3|BE|$
$A(BED) = 8\,br$

⇒ **A(AEDC) = ?**

A) 20 B) 28 C) 32 D) 40 E) 42

35.

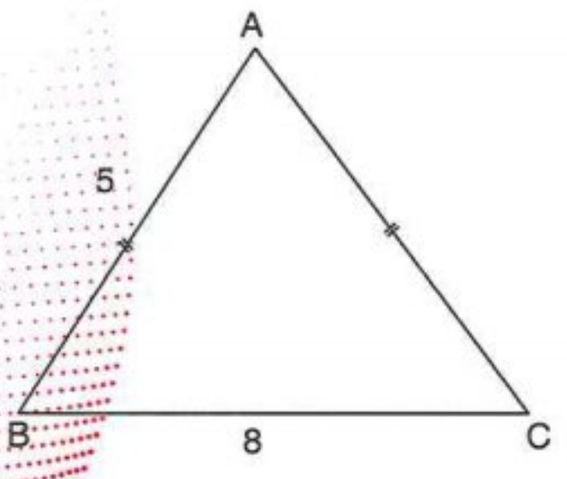


$|AB| = 5\,br$
$|AC| = 6\,br$
$|BC| = 7\,br$

⇒ **A(ABC) = ?**

A) $3\sqrt{3}$ B) $6\sqrt{3}$ C) $6\sqrt{6}$ D) $15\sqrt{3}$ E) $18\sqrt{3}$

36.



$|AB| = |AC| = 5$
$|BC| = 8$

⇒ **A(ABC) = ?**

A) 6 B) 9 C) 12 D) 16 E) 18

25. B	26. E	27. C	28. C	29. B	30. C
31. C	32. C	33. D	34. C	35. C	36. C

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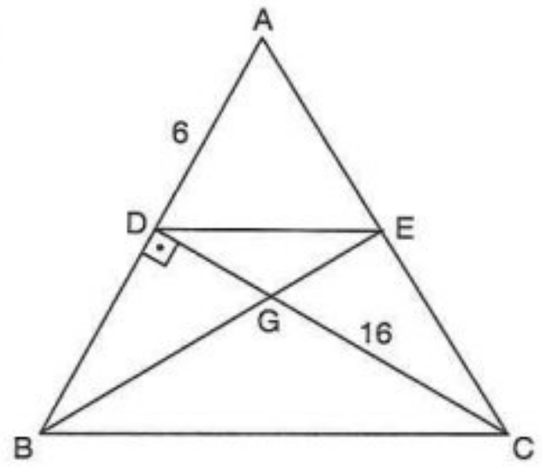
37.

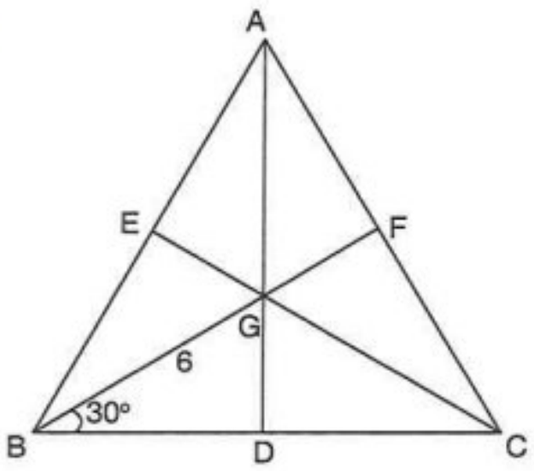


G, ağırlık merkezi
(center of gravity)
$|AD| = 6$ br
$|GC| = 16$ br

⇒ **A(ABC) = ?**

A) 72 B) 96 C) 108 D) 120 E) 144

38.

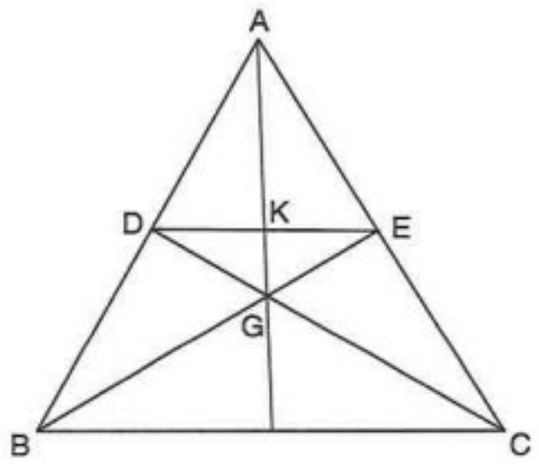


G, ağırlık merkezi
(center of gravity)
$m(\widehat{CBF}) = 30°$
$|BG| = 6$ br
$|BD| = 4$ br

⇒ **A(ABC) = ?**

A) 18 B) 24 C) 36 D) 48 E) 72

39.

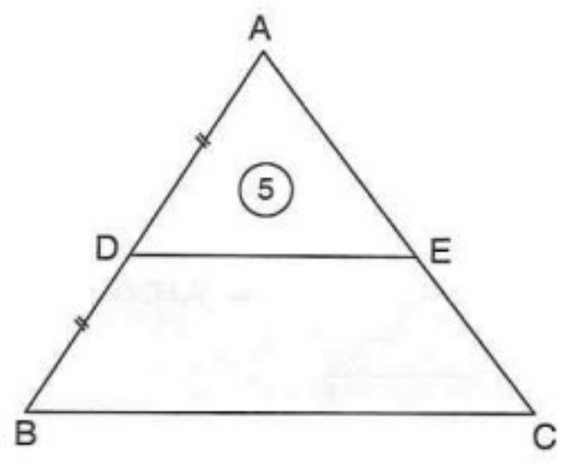


G, ağırlık merkezi
(center of gravity)
$A(DKG) = 3$ br²

⇒ **A(ABC) = ?**

A) 48 B) 60 C) 72 D) 81 E) 90

40.

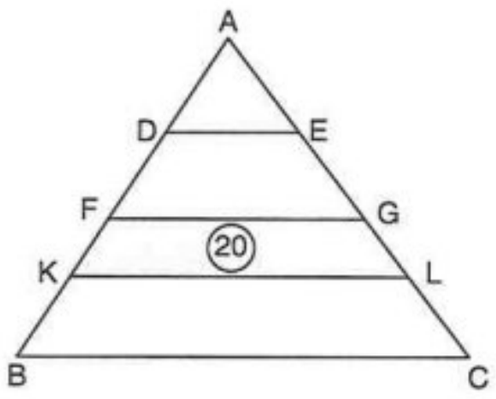


$[DE] \,/\!/\, [BC]$
$|AD| = |DB|$
$A(ADE) = 5$ br²

⇒ **A(BDEC) = ?**

A) 10 B) 15 C) 20 D) 25 E) 30

41.

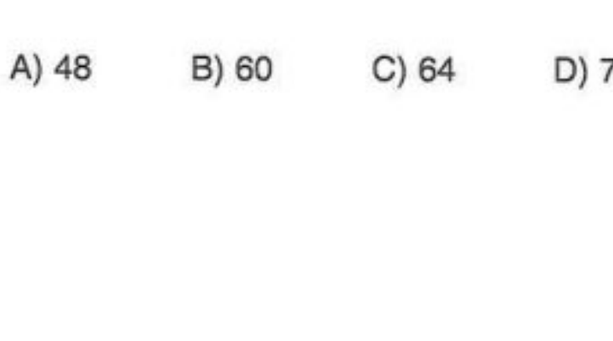


$[DE] \,/\!/\, [FG] \,/\!/\, [KL] \,/\!/\, [BC]$
$|AD| = |DF| = |FK| = |KB|$
$A(KLGF) = 20$ br²

⇒ **A(ABC) = ?**

A) 48 B) 60 C) 64 D) 72 E) 80

42.



$[DE] \,/\!/\, [AB]$
$2|AD| = |DC|$
$A(ABED) = 15$ br²

⇒ **A(DEC) = ?**

A) 9 B) 12 C) 15 D) 18 E) 20

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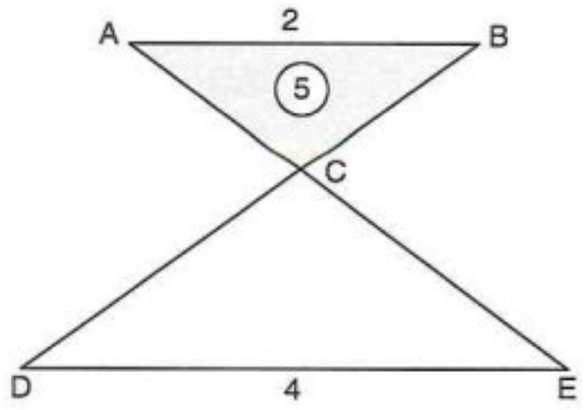
43.



[AB] // [DE]
|AB| = 2 br
|DE| = 4 br
A(ABC) = 5 br²

⇒ **A(CDE) = ?**

A) 10 B) 15 C) 20 D) 25 E) 30

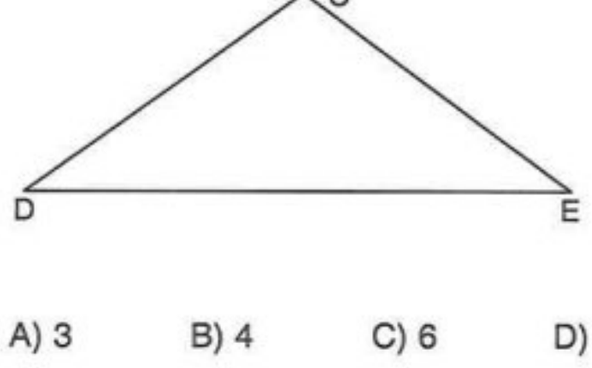
44.

[AB] // [DE]
3|AB| = |DE|
A(CDE) = 36 br²

⇒ **A(ABC) = ?**

A) 3 B) 4 C) 6 D) 9 E) 12

45.

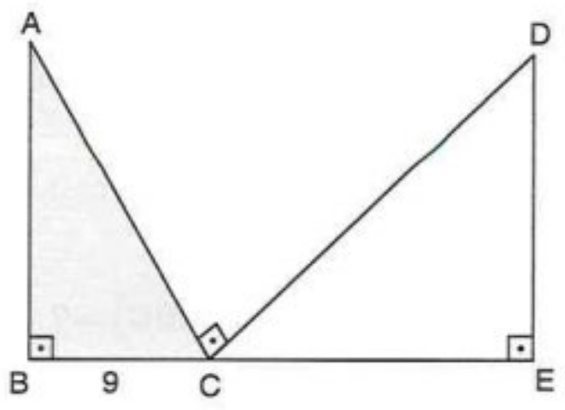


[AB] // [DE]
2|AB| = 3|DE|
A(CDE) = 8 br²

⇒ **A(ABC) = ?**

A) 12 B) 16 C) 18 D) 24 E) 27

46.

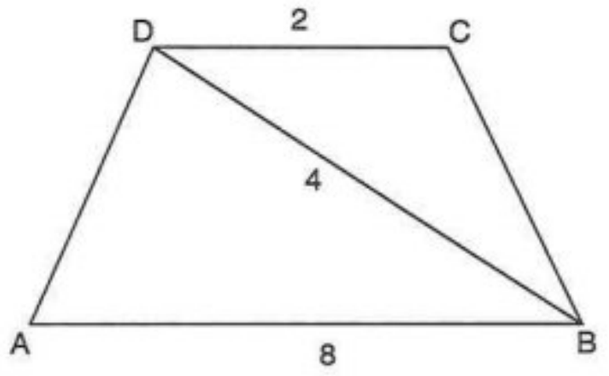


[AB] ⊥ [BE]
[DE] ⊥ [BE]
[AC] ⊥ [CD]
|ED| = 3 br
|BC| = 9 br
A(CDE) = 3 br

⇒ **A(ABC) = ?**

A) 9 B) 18 C) 24 D) 27 E) 36

47.



[DC] // [AB]
|DC| = 2 br
|BD| = 4 br
|AB| = 8 br
A(DBC) = 10 br

⇒ **A(ADB) = ?**

A) 20 B) 30 C) 40 D) 50 E) 60

48.

[DE] // [BC]
|DE| = 2 br
|BC| = 3 br
A(ADE) = 12 br²

⇒ **A(ABC) = ?**

A) 18 B) 24 C) 27 D) 32 E) 36

37. E	38. C	39. C	40. B	41. C	42. B
43. C	44. B	45. C	46. D	47. C	48. C

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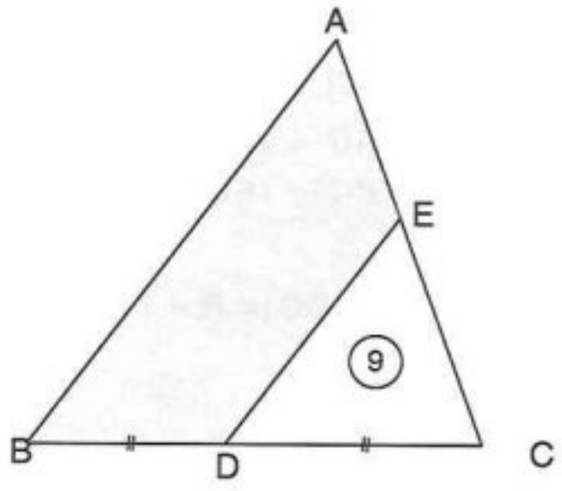
49.

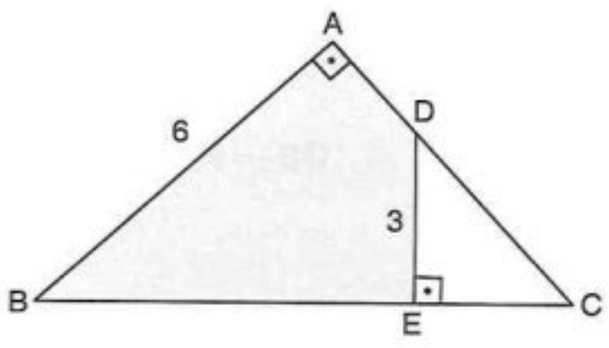


[DE] // [AB]
|BD| = |DC|
A(DEC) = 9 br²

⇒ **A(ABDE) = ?**

A) 18 B) 24 C) 27 D) 36 E) 40

50.

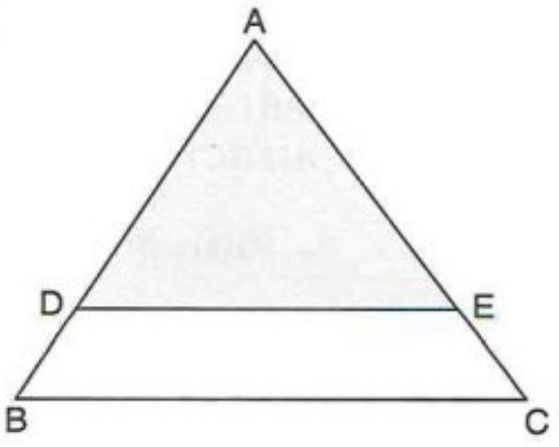


[AB] ⊥ [AC]
[DE] ⊥ [BC]
|DE| = 3 br
|AB| = 6 br
A(DEC) = 6 br²

⇒ **A(ABED) = ?**

A) 12 B) 15 C) 16 D) 18 E) 24

51.

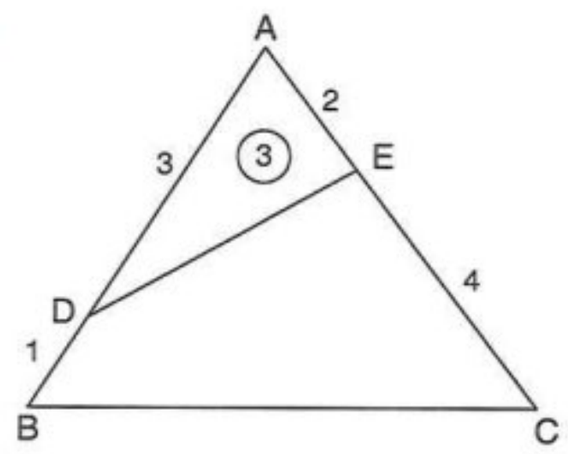


[DE] // [BC]
|AD| = 2|BD|
A(BCED) = 10 br²

⇒ **A(ADE) = ?**

A) 5 B) 6 C) 7 D) 8 E) 10

52.

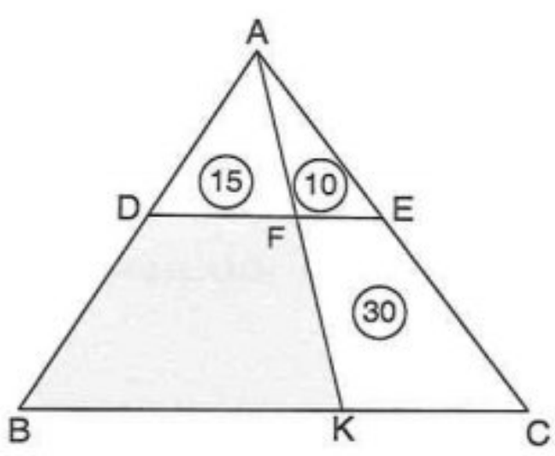


|BD| = 1 br
|AE| = 2 br
|AD| = 3 br
|EC| = 4 br
A(ADE) = 3 br

⇒ **A(ABC) = ?**

A) 10 B) 12 C) 18 D) 24 E) 36

53.

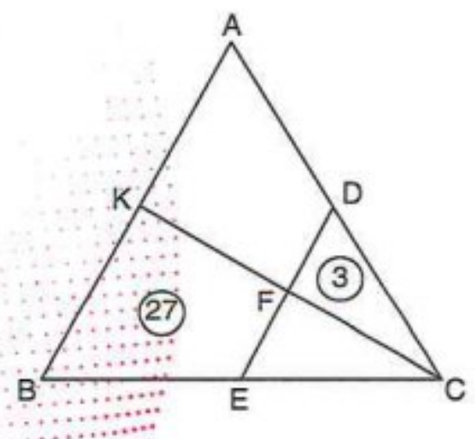


[DE] // [BC]
A(AFE) = 10 br²
A(ADF) = 15 br²
A(KCEF) = 30 br²

⇒ **A(BKFD) = ?**

A) 20 B) 30 C) 40 D) 45 E) 60

54.



[DE] // [AB]
A(DFC) = 3 br²
A(BEFK) = 27 br²

⇒ **A(AKFD) = A(FEC) = ?**

A) 3 B) 6 C) 9 D) 18 E) 27

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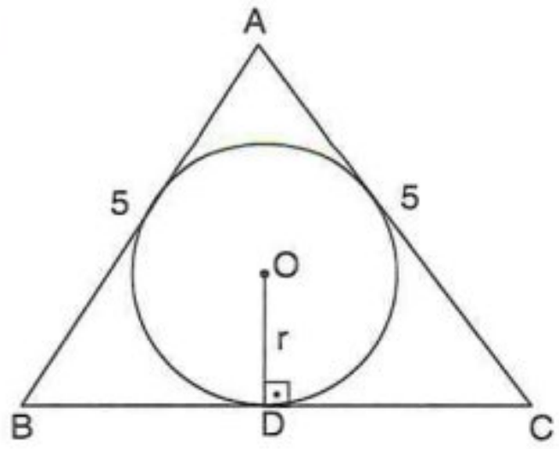
55.



O, merkez *(center)*

$[OD] \perp [BC]$

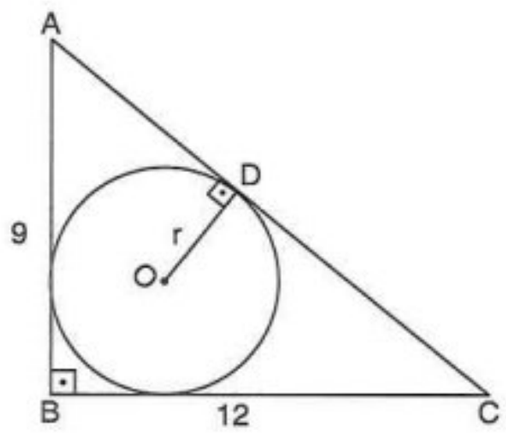
$|AB| = |AC| = 5$ br

$|BC| = 8$ br

⇒ $|OD| = r = ?$

A) $\frac{4}{3}$ B) 3 C) 4 D) $\frac{9}{2}$ E) 6

56.



O, merkez *(center)*

$[OD] \perp [AC]$

$[AB] \perp [BC]$

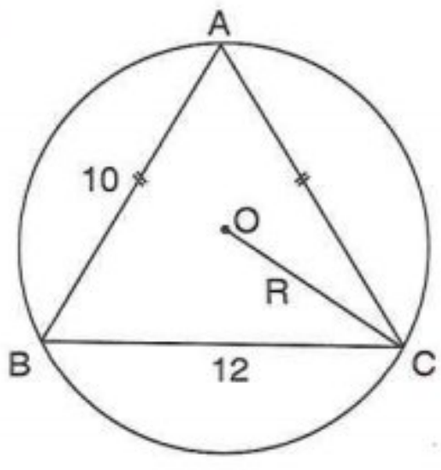
$|AB| = 9$ br

$|BC| = 12$ br

⇒ $|OD| = r = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

57.



O, merkez *(center)*

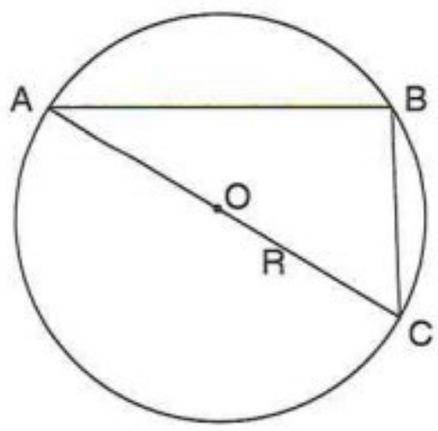
$|AB| = |AC| = 10$ br

$|BC| = 12$ br

⇒ $|OC| = R = ?$

A) 5 B) $\frac{25}{2}$ C) $\frac{25}{3}$ D) $\frac{25}{4}$ E) $\frac{25}{8}$

58.



O, merkez *(center)*

[AC], çap

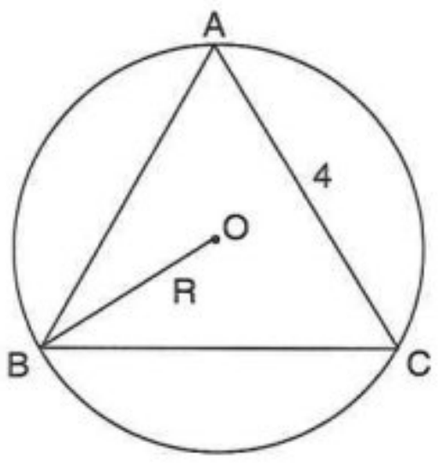
$|AB| = 12$ br

$|BC| = 16$ br

⇒ $|OC| = R = ?$

A) 6 B) 8 C) 10 D) 12 E) 16

59.



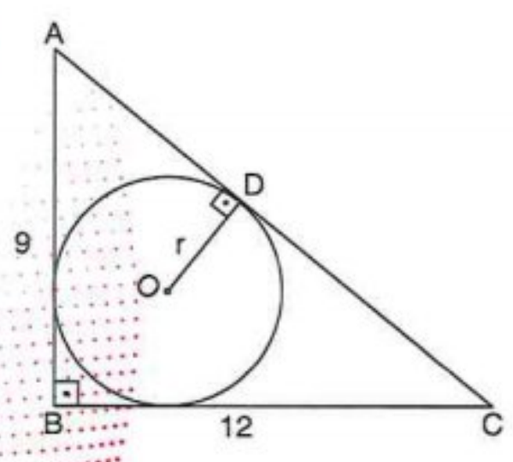
O, merkez *(center)*

$|AB| = |AC| = |BC| = 4$

⇒ $|OB| = R = ?$

A) $\sqrt{3}$ B) $4\sqrt{3}$ C) $\frac{4\sqrt{3}}{3}$ D) $\frac{4\sqrt{3}}{5}$ E) $16\sqrt{3}$

60.



O, merkez *(center)*

$[OD] \perp [AB]$

$|AB| = [BC] = 6$

$A(ABC) = 8\sqrt{5}$ br²

⇒ $|OD| = ?$

A) $3\sqrt{5}$ B) $2\sqrt{5}$ C) $\frac{8\sqrt{5}}{5}$ D) $\frac{6\sqrt{5}}{5}$ E) $\frac{4\sqrt{5}}{5}$

49. C	50. D	51. D	52. B	53. D	54. C
55. A	56. B	57. D	58. C	59. C	60. E

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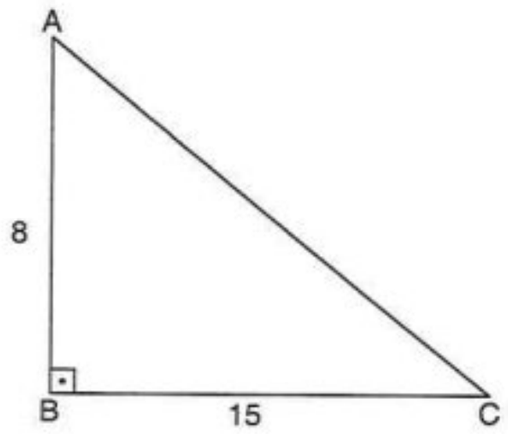
1.

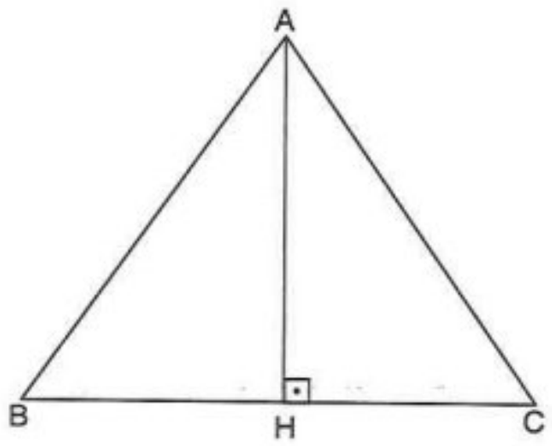


$[AB] \perp [BC]$
$|AB| = 8$ br
$|BC| = 15$ br

⇒ **A(ABC) = ?**

A) 30 B) 45 C) 60 D) 90 E) 120

2.

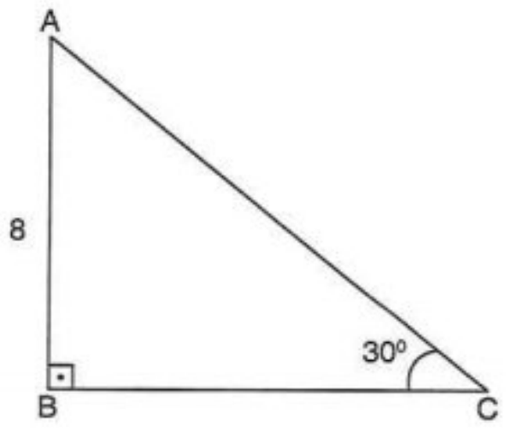


$[AH] \perp [BC]$
$|AH| = 6$ br
$|BC| = 8$ br

⇒ **A(ABC) = ?**

A) 16 B) 18 C) 24 D) 36 E) 48

3.

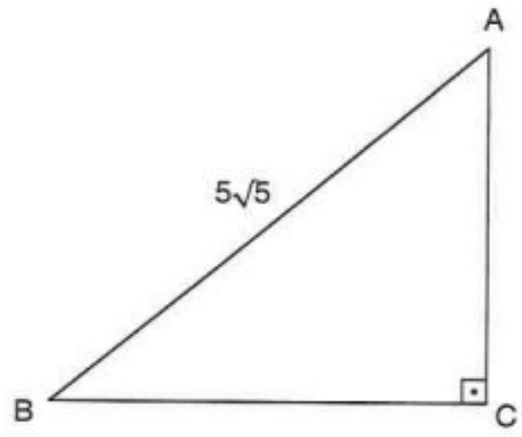


$[AB] \perp [BC]$
$m(\widehat{ACB}) = 30°$
$|AB| = 8$ br

⇒ **A(ABC) = ?**

A) $16\sqrt{3}$ B) 32 C) $32\sqrt{3}$ D) 64 E) $64\sqrt{3}$

4.

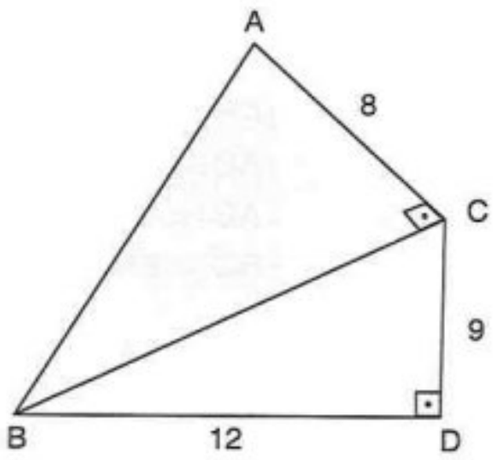


$[AC] \perp [BC]$
$|AC| = 5$ br
$|AB| = 5\sqrt{5}$ br

⇒ **A(ABC) = ?**

A) $\frac{25\sqrt{5}}{2}$ B) 25 C) $25\sqrt{5}$ D) 50 E) $50\sqrt{5}$

5.

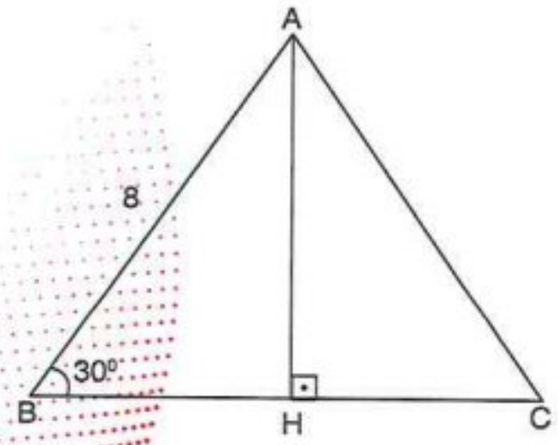


$[AC] \perp [BC]$
$[CD] \perp BD$
$|AC| = 8$ br
$|CD| = 9$ br
$|BD| = 12$ br

⇒ **A(ABC) = ?**

A) 40 B) 60 C) 80 D) 100 E) 120

6.



$[AH] \perp [BC]$
$m(\widehat{ABC}) = 30°$
$|AB| = 8$ br
$|BC| = 10\sqrt{3}$ br

⇒ **A(AHC) = ?**

A) $8\sqrt{3}$ B) 12 C) 16 D) $12\sqrt{3}$ E) $16\sqrt{3}$

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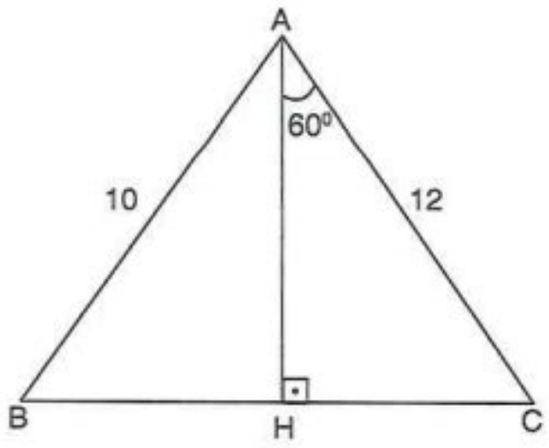
7.

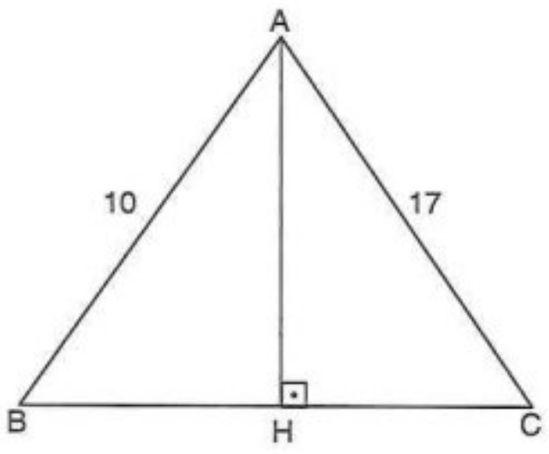


$[AH] \perp [BC]$
$m(\widehat{HAC}) = 60°$
$|AB| = 10\,br$
$|AC| = 12\,br$

⇒ **A(ABC) = ?**

A) 24 B) 48 C) $18\sqrt{3}$
D) $48 + 6\sqrt{3}$ E) $24 + 18\sqrt{3}$

8.

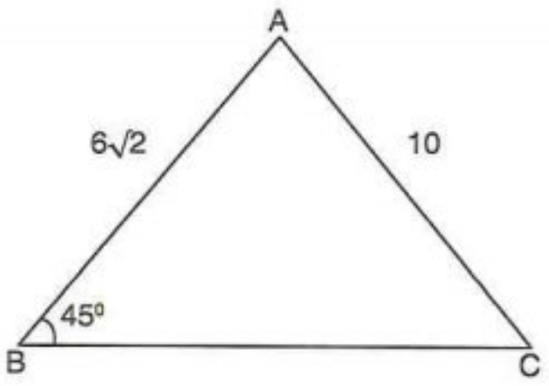


$[AH] \perp [BC]$
$|AB| = 10\,br$
$|AC| = 17\,br$
$|BC| = 21\,br$

⇒ **A(ABC) = ?**

A) 42 B) 84 C) 96 D) 112 E) 128

9.

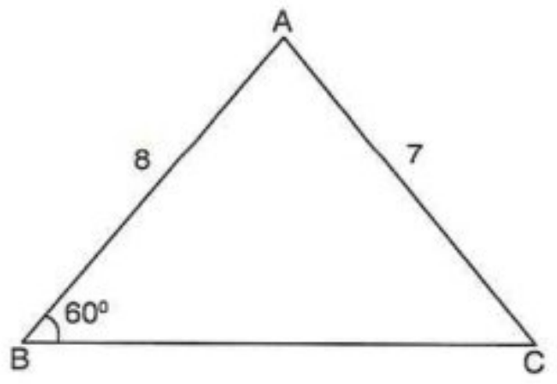


$m(\widehat{ABC}) = 45°$
$|AC| = 10\,br$
$|AB| = 6\sqrt{2}\,br$

⇒ **A(ABC) = ?**

A) 42 B) 84 C) 96 D) 112 E) 128

10.

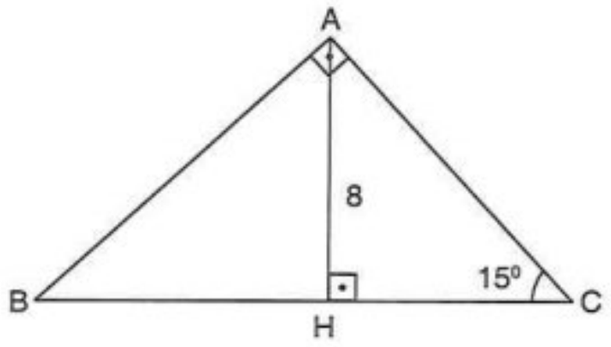


$m(\widehat{ABC}) = 60°$
$|AB| = 8\,br$
$|AC| = 7\,br$

⇒ **A(ABC) = ?**

A) 8 B) 10 C) $10\sqrt{3}$ D) 12 E) 24

11.

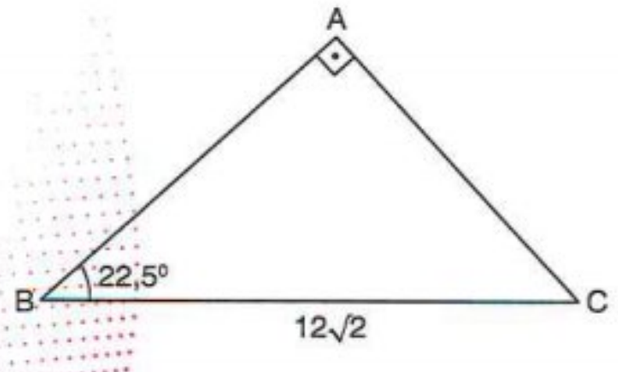


$[AB] \perp [AC]$
$[AH] \perp [BC]$
$m(\widehat{ACB}) = 15°$
$|AH| = 8\,br$

⇒ **A(ABC) = ?**

A) 132 B) 128 C) 120 D) 96 E) 64

12.



$[AB] \perp [AC]$
$m(\widehat{ABC}) = 22{,}5°$
$|BC| = 12\sqrt{2}$

⇒ **A(ABC) = ?**

A) 18 B) $18\sqrt{3}$ C) $36\sqrt{2}$
D) 60 E) 72

1. C	2. C	3. C	4. B	5. B	6. D
7. E	8. B	9. A	10. C	11. B	12. C

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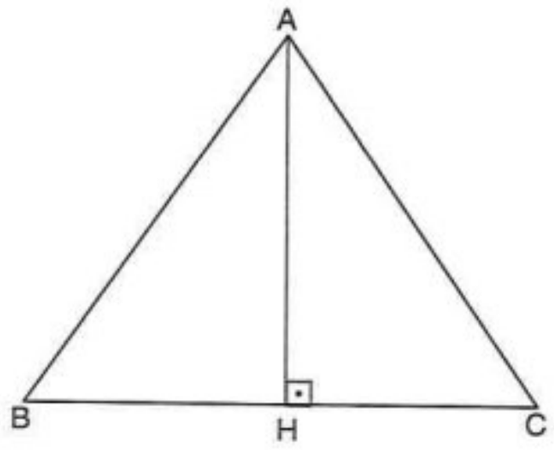
1.

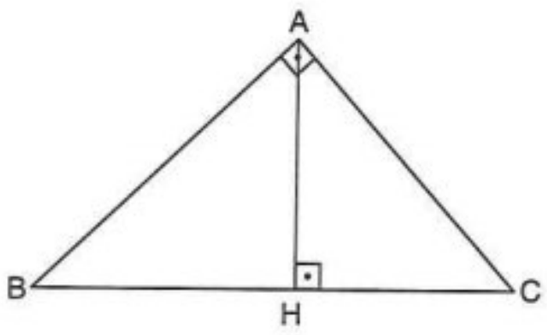


$[AH] \perp [BC]$
$3|AH| = |BC|$
$A(ABC) = 24\,br^2$

⇒ $|AH| = ?$

A) 4 B) 6 C) 8 D) 12 E) 16

2.

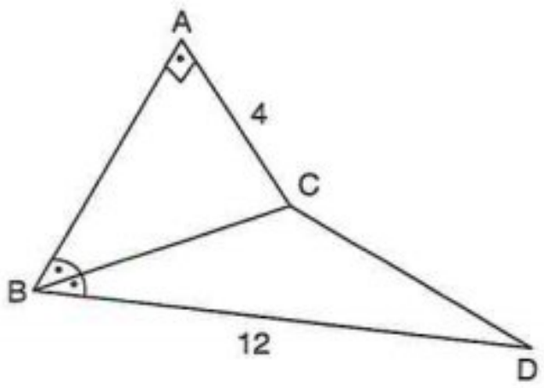


$[AB] \perp [AC]$
$[AH] \perp [BC]$
$|AH| = 2|BH| = 4\,br$

⇒ $A(ABC) = ?$

A) 10 B) 12 C) 16 D) 20 E) 24

3.

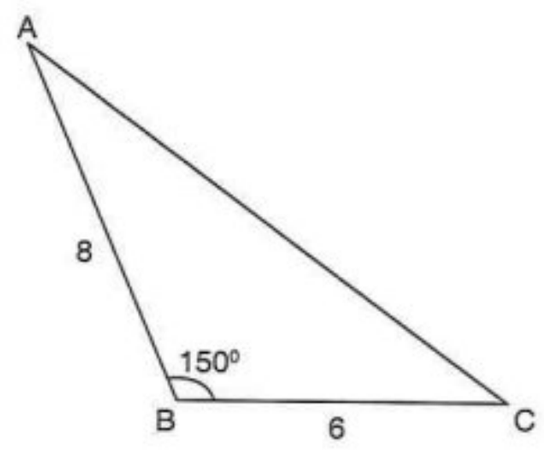


$[BC]$, açıortay *(bisector)*
$[AB] \perp [AC]$
$|AC| = 4\,br$
$|BD| = 12\,br$

⇒ $A(BCD) = ?$

A) 12 B) 24 C) 36 D) 42 E) 48

4.

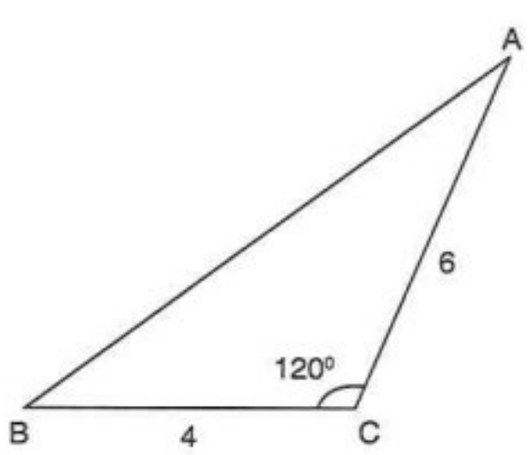


$m(\widehat{ABC}) = 150°$
$|AB| = 8\,br$
$|BC| = 6\,br$

⇒ $A(ABC) = ?$

A) 12 B) 16 C) 18 D) 24 E) 36

5.

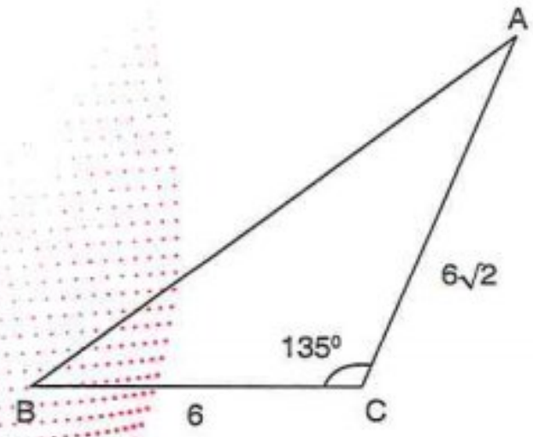


$m(\widehat{ACB}) = 120°$
$|AC| = 6\,br$
$|BC| = 4\,br$

⇒ $A(ABC) = ?$

A) $6\sqrt{3}$ B) $8\sqrt{3}$ C) $12\sqrt{3}$ D) $16\sqrt{3}$ E) $24\sqrt{3}$

6.



$m(\widehat{ACB}) = 135°$
$|AC| = 6\sqrt{2}\,br$
$|BC| = 6\,br$

⇒ $A(ABC) = ?$

A) 18 B) $18\sqrt{2}$ C) 24 D) 36 E) $36\sqrt{2}$

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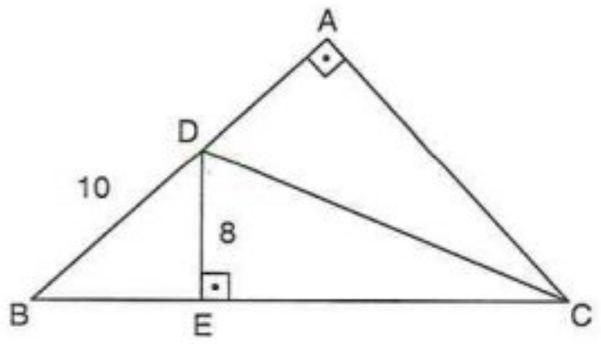
7.



$[AB] \perp [AC]$
$[DE] \perp [BC]$
$|DE| = 8$ br
$|BD| = 10$ br
$|BC| = 15$ br

⇒ $|\mathbf{AC}| = ?$

A) 5 B) 6 C) 8 D) 9 E) 12

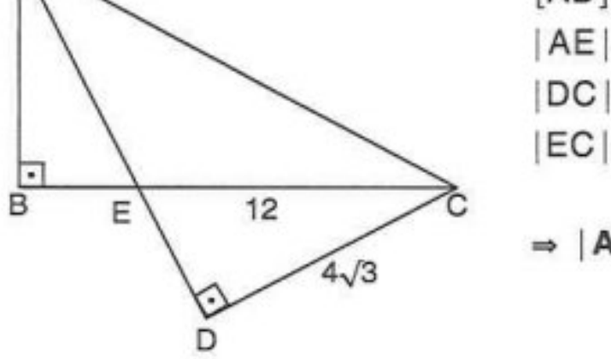
8.

$[AB] \perp [BC]$
$[AD] \perp [DC]$
$|AE| = \sqrt{3}$ br
$|DC| = 4\sqrt{3}$ br
$|EC| = 12$ br

⇒ $|\mathbf{AB}| = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

9.

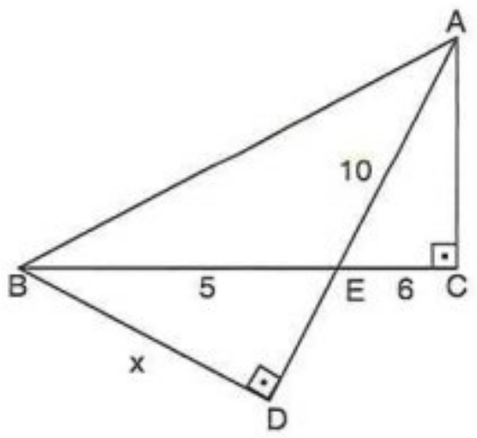


$[AB] \perp [AC]$
$[AH] \perp [BC]$
$|AB| = 3$ br
$|AC| = 4$ br

⇒ $|\mathbf{AH}| = ?$

A) $\frac{12}{5}$ B) $\frac{41}{3}$ C) $\frac{12}{7}$ D) $\frac{5}{2}$ E) $\frac{3}{2}$

10.

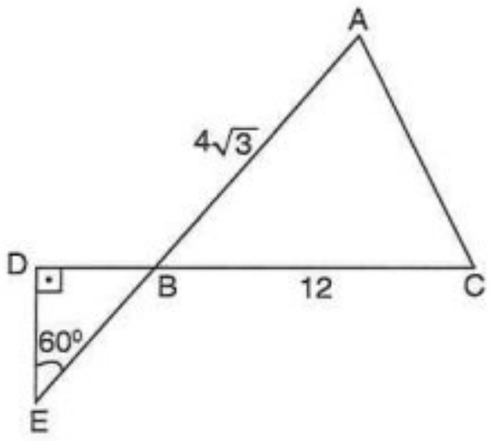


$[AC] \perp [BC]$
$[BD] \perp [AD]$
$|AE| = 10$ br
$|EC| = 6$ br
$|BE| = 5$ br

⇒ $|\mathbf{BD}| = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

11.

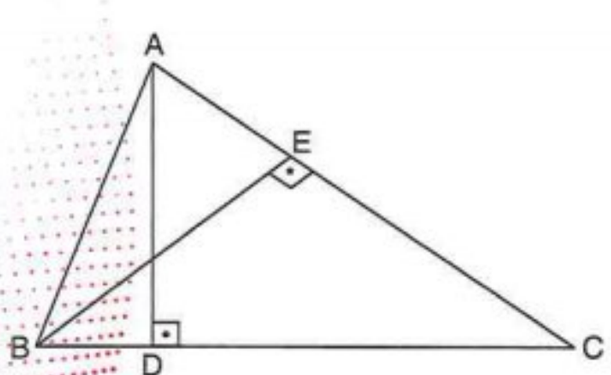


$[ED] \perp [DC]$
$m(\widehat{DEA}) = 60°$
$|AB| = 4\sqrt{3}$ br
$|BC| = 12$ br

⇒ $\mathbf{A(ABC)} = ?$

A) 6 B) $6\sqrt{3}$ C) 12 D) $12\sqrt{3}$ E) 18

12.



$[AD] \perp [BC]$
$[BE] \perp [AC]$
$|AC| = 10$ br
$|BC| = 12$ br
$|AD| = 5$ br

⇒ $|\mathbf{BE}| = ?$

A) 5 B) 6 C) 8 D) 9 E) 10

1. A	2. D	3. B	4. A	5. A	6. A
7. E	8. A	9. A	10. C	11. D	12. B

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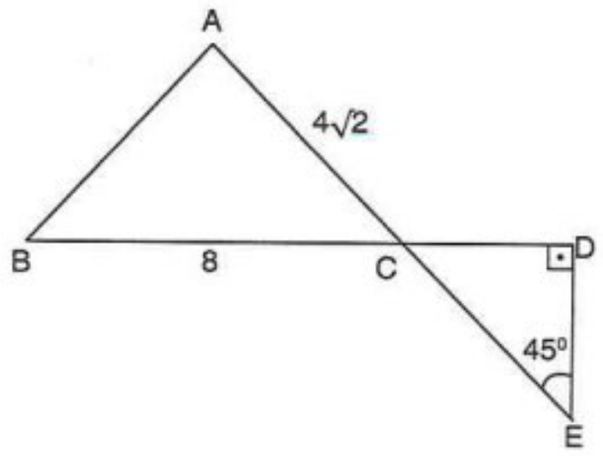
1.

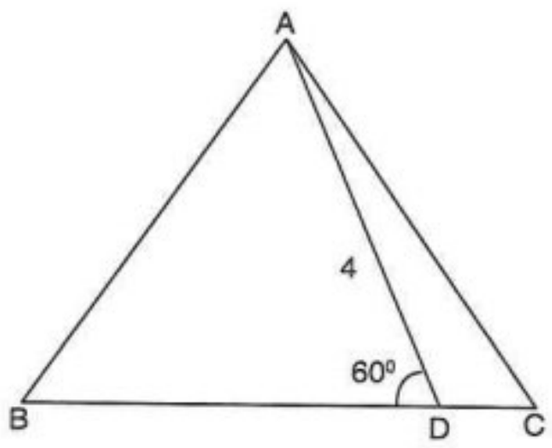


$[BD] \perp [DE]$
$m(\widehat{AED}) = 45^\circ$
$|AC| = 4\sqrt{2}$ br
$|BC| = 8$ br

⇒ **A(ABC) = ?**

A) 8 B) 12 C) 16 D) $16\sqrt{2}$ E) $32\sqrt{2}$

2.

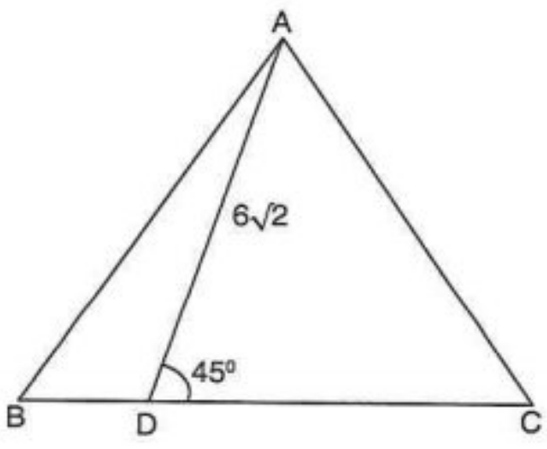


$m(\widehat{ADB}) = 60^\circ$
$|AD| = 4$ br
$|BC| = 6\sqrt{3}$ br

⇒ **A(ABC) = ?**

A) 6 B) $6\sqrt{3}$ C) 12 D) $12\sqrt{3}$ E) 18

3.

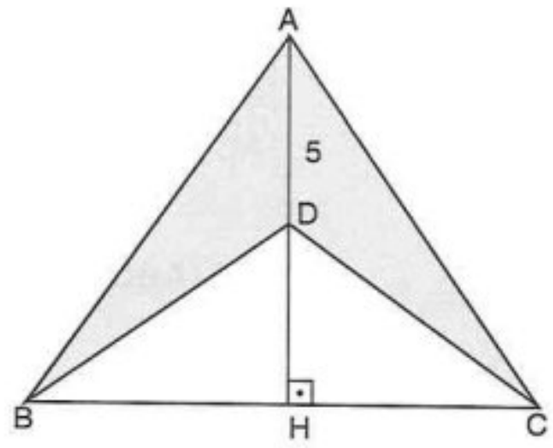


$m(\widehat{ADC}) = 45^\circ$
$|AD| = 6\sqrt{2}$ br
$|BC| = 10$ br

⇒ **A(ABC) = ?**

A) $6\sqrt{2}$ B) 18 C) 24 D) 30 E) $30\sqrt{2}$

4.

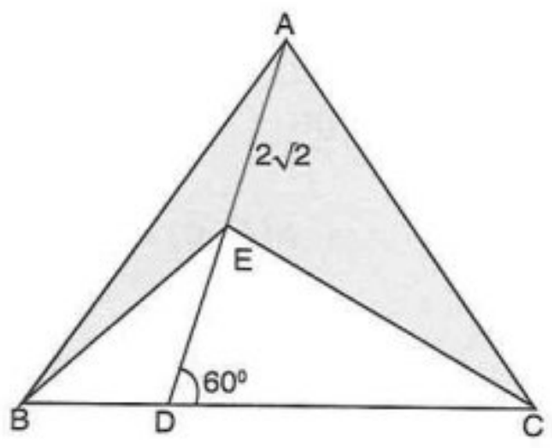


$[AH] \perp [BC]$
$|AD| = 5$ br
$|BC| = 12$ br

⇒ **A(ABDC) = ?**

A) 15 B) 20 C) 25 D) 30 E) 35

5.

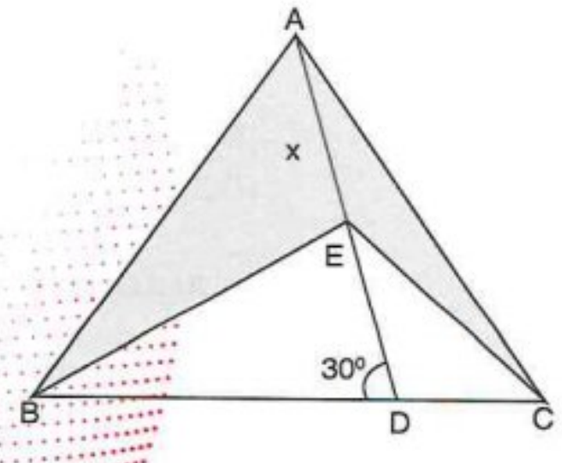


$m(\widehat{ADC}) = 60^\circ$
$|AE| = 2\sqrt{2}$ br
$|BC| = 10\sqrt{2}$ br

⇒ **A(ABEC) = ?**

A) 10 B) $10\sqrt{2}$ C) $10\sqrt{3}$ D) 20 E) 40

6.



$m(\widehat{ADB}) = 30^\circ$
$|BC| = 10$ br
$A(ABEC) = 12$ br

⇒ **|AE| = ?**

A) 3,6 B) 4,8 C) 5,2 D) 6,4 E) 7,2

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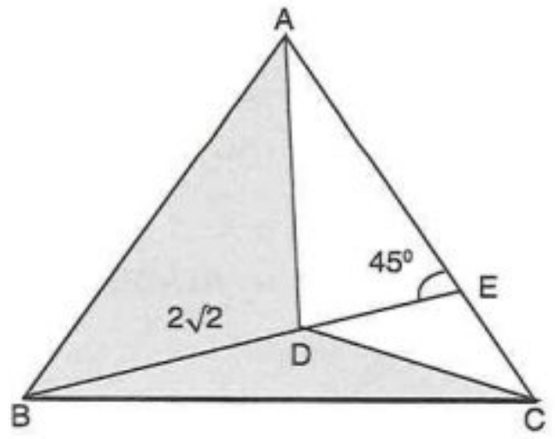
7.

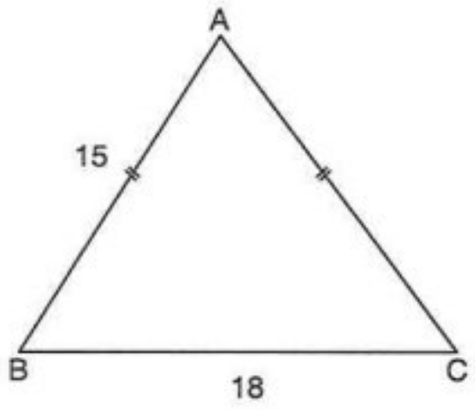


$m(A\widehat{E}B) = 45^\circ$
$|BD| = 2\sqrt{2}$ br
$|AC| = 10$ br

⇒ **A(ABCD) = ?**

A) 10 B) $10\sqrt{2}$ C) 15 D) 20 E) $20\sqrt{2}$

8.

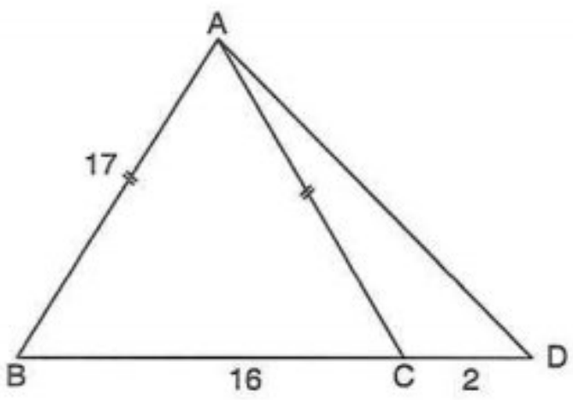


$|AB| = |AC| = 15$ br
$|BC| = 18$ br

⇒ **A(ABC) = ?**

A) 54 B) 78 C) 108 D) 128 E) 144

9.

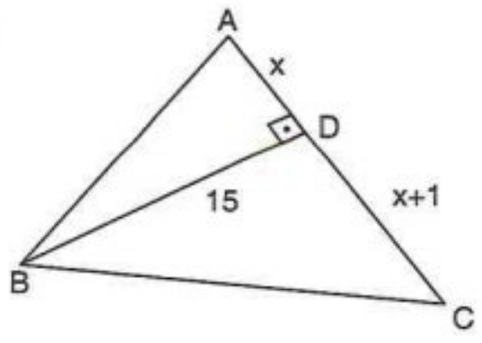


$|AB| = |AC| = 17$ br
$|BC| = 16$ br
$|DC| = 2$ br

⇒ **A(ADC) = ?**

A) 10 B) 15 C) 20 D) 25 E) 30

10.

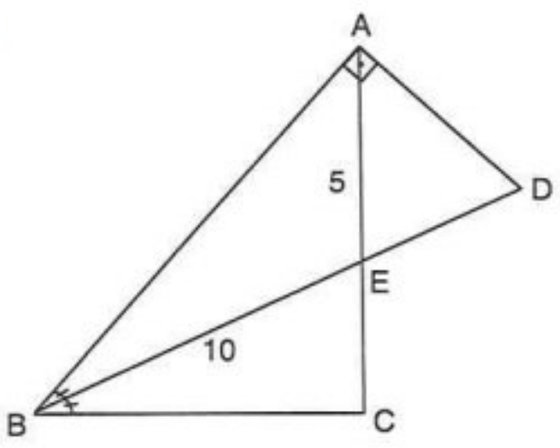


$[BD] \perp [AC]$
$|AB| = |AC|$
$|BD| = 15$ br
$|AD| = x$ br
$|DC| = (x+1)$ br

⇒ **A(ABC) = ?**

A) $\frac{215}{2}$ B) $\frac{225}{2}$ C) $\frac{235}{2}$ D) $\frac{245}{2}$ E) $\frac{255}{2}$

11.

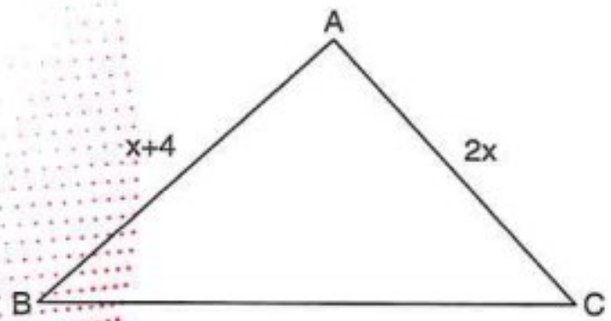


[BD], açıortay *(bisector)*
$[AB] \perp [AD]$
$[AC] \perp [BC]$
$|BE| = 10$ br
$|ED| = 8$ br
$|AE| = 5$ br

⇒ **A(ABD) = ?**

A) 9 B) 18 C) 27 D) 36 E) 54

12.



ABC, eşkenar üçgen *(equilateral triangle)*
$|AC| = (2x)$ br
$|AB| = (x+4)$ br

⇒ **A(ABC) = ?**

A) $4\sqrt{3}$ B) 10 C) $16\sqrt{3}$ D) 32 E) $32\sqrt{3}$

1. C	2. E	3. D	4. D	5. C	6. B
7. A	8. C	9. B	10. E	11. C	12. C

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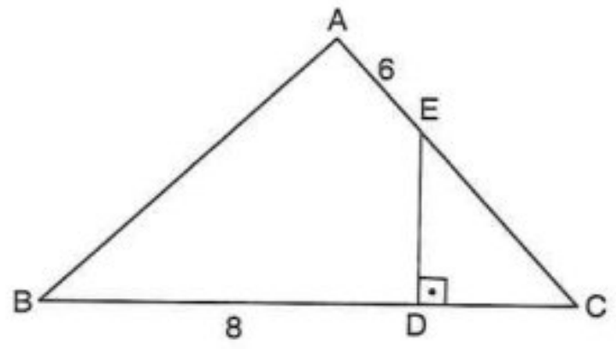
1.

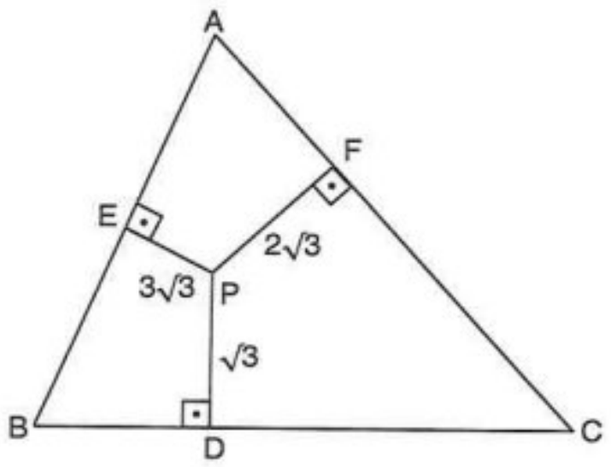


ABC eşkenar üçgen
(equilateral triangle)
$[DE] \perp [BC]$
$|AE| = 6$ br
$|BD| = 8$ br

⇒ **A(ABC) = ?**

A) $16\sqrt{3}$ B) $20\sqrt{3}$ C) $25\sqrt{3}$
D) $64\sqrt{3}$ E) $100\sqrt{3}$

2.

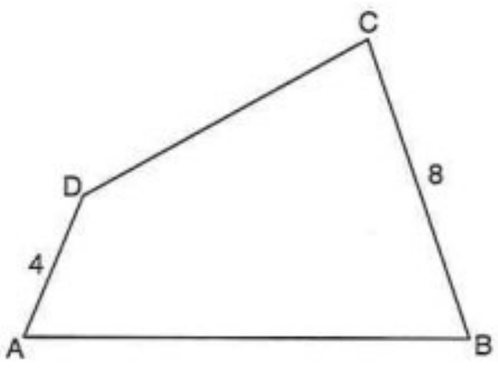


ABC eşkenar üçgen
(equilateral triangle)
$[PD] \perp [BC]$
$[PE] \perp [AB]$
$[PF] \perp [AC]$
$|PD| = \sqrt{3}$ br
$|PF| = 2\sqrt{3}$ br
$|PE| = 3\sqrt{3}$ br

⇒ **A(ABC) = ?**

A) $6\sqrt{3}$ B) $12\sqrt{3}$ C) $18\sqrt{3}$
D) $36\sqrt{3}$ E) $72\sqrt{3}$

3.

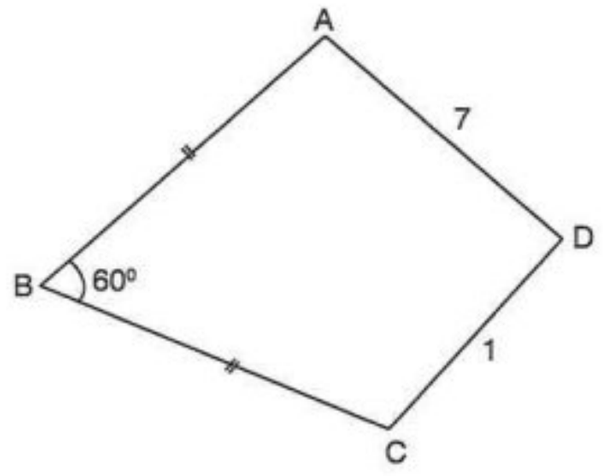


$[DC] \perp [CB]$
$m(\widehat{DAB}) = m(\widehat{ABC}) = 60°$
$|AD| = 4$ br
$|BC| = 8$ br

⇒ **A(ABCD) = ?**

A) $24\sqrt{3}$ B) $26\sqrt{3}$ C) $28\sqrt{3}$
D) $30\sqrt{3}$ E) $32\sqrt{3}$

4.

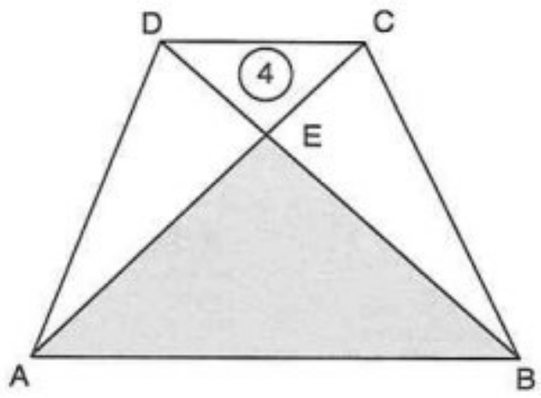


$m(\widehat{ABC}) = 60°$
$m(\widehat{BCD}) = 150°$
$|AB| = |BC|$
$|CD| = 1$ br
$|AD| = 7$ br

⇒ **A(ABCD) = ?**

A) $8\sqrt{3}$ B) $12\sqrt{3}$ C) $14\sqrt{3}$
D) $16\sqrt{3}$ E) $18\sqrt{3}$

5.

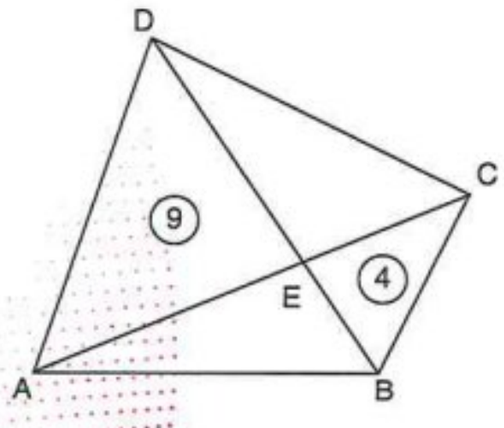


$[DC] \parallel [AB]$
$3|DC| = 2|AB|$
$A(DEC) = 4$ br

⇒ **A(EAB) = ?**

A) 8 B) 9 C) 10 D) 12 E) 16

6.



$[AD] \parallel [BC]$
$A(BEC) = 4\,br^2$
$A(DAE) = 9\,br^2$

⇒ **A(ABCD) = ?**

A) 20 B) 22 C) 24 D) 25 E) 28

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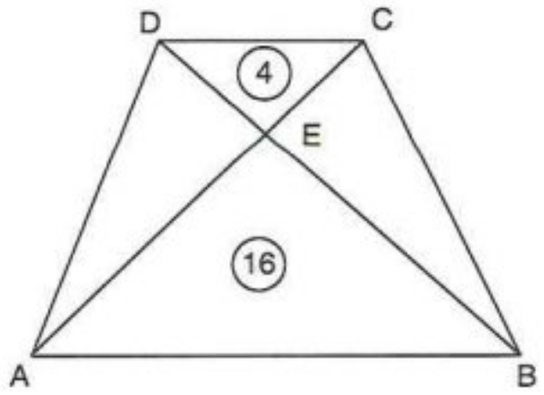
7.

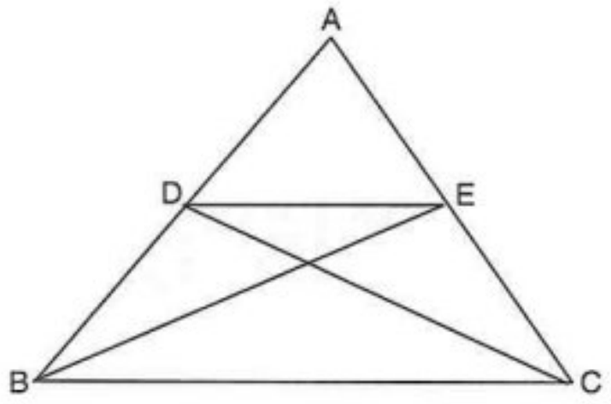


$[DC] \mathbin{/\!/} [AB]$
$A(DEC) = 4\,br^2$
$A(AEB) = 16\,br^2$
$A(ADE) = S_1$
$A(CEB) = S_2$

$\Rightarrow$ **$S_1 + S_2 = ?$**

A) 12 B) 14 C) 16 D) 18 E) 24

8.

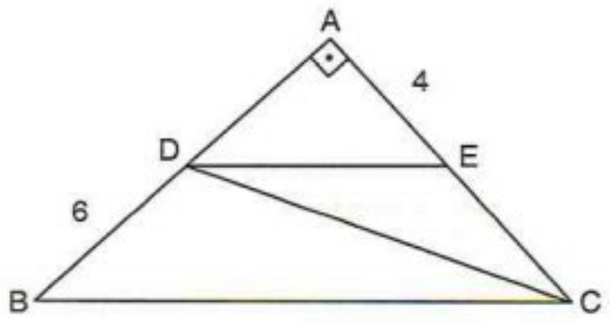


$[DE] \mathbin{/\!/} [BC]$
$|EC| = 2|AE|$
$A(BEC) = 18\,br^2$

$\Rightarrow$ **$A(DEB) = ?$**

A) 6 B) 8 C) 9 D) 12 E) 16

9.

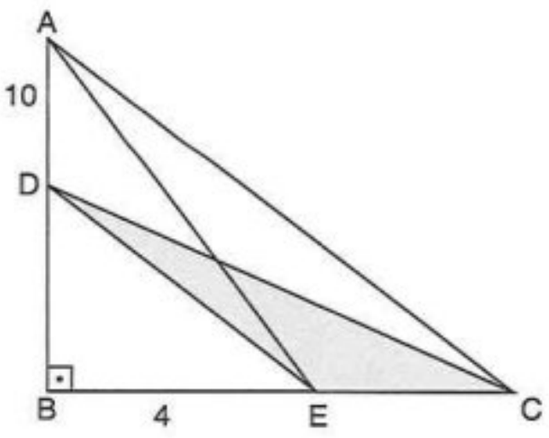


$[DE] \mathbin{/\!/} [BC]$
$[AB] \perp [AC]$
$|AE| = 4\,br$
$|BD| = 6\,br$

$\Rightarrow$ **$A(DEC) = ?$**

A) 12 B) 16 C) 18 D) 20 E) 24

10.

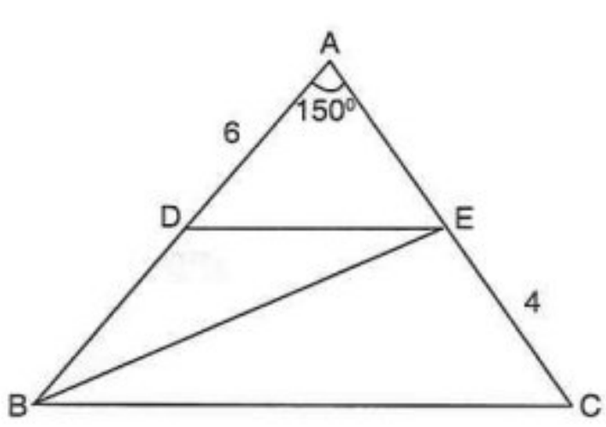


$[AB] \perp [BC]$
$[DE] \mathbin{/\!/} [AC]$
$|AD| = 10\,br$
$|BE| = 4\,br$

$\Rightarrow$ **$A(DEC) = ?$**

A) 10 B) 15 C) 20 D) 25 E) 30

11.

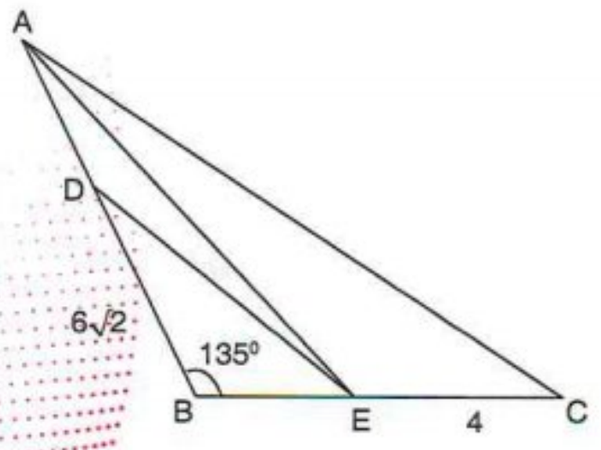


$[DE] \mathbin{/\!/} [BC]$
$m(\widehat{BAC}) = 150°$
$|AD| = 6\,br$
$|EC| = 4\,br$

$\Rightarrow$ **$A(DBE) = ?$**

A) 6 B) 8 C) 12 D) 16 E) 18

12.



$[DE] \mathbin{/\!/} [AC]$
$m(\widehat{ABC}) = 135°$
$|BD| = 6\sqrt{2}\,br$
$|EC| = 4\,br$

$\Rightarrow$ **$A(ADE) = ?$**

A) 6 B) 8 C) 12 D) 16 E) 24

1. C	2. D	3. C	4. C	5. B	6. D
7. C	8. A	9. A	10. C	11. A	12. C

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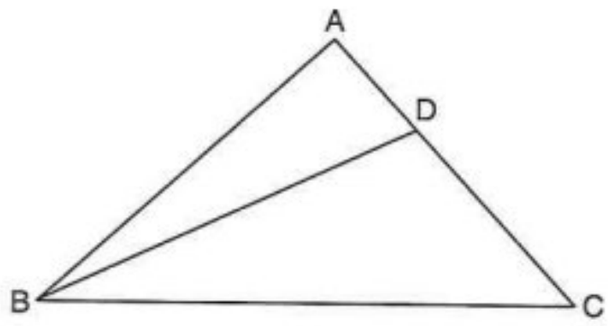
1.

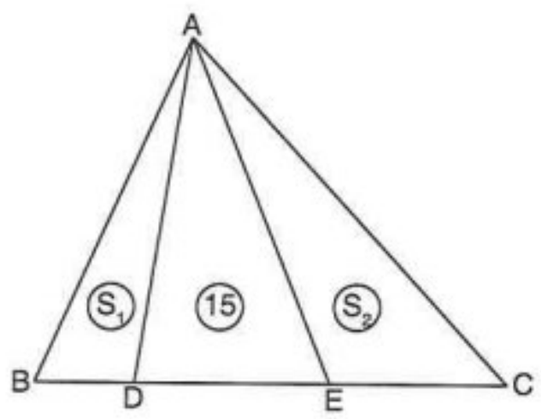


$|CD| = 2|AD|$
$A(ABD) = 4\,br^2$

⇒ **A(ABC) = ?**

A) 6 B) 8 C) 10 D) 12 E) 14

2.

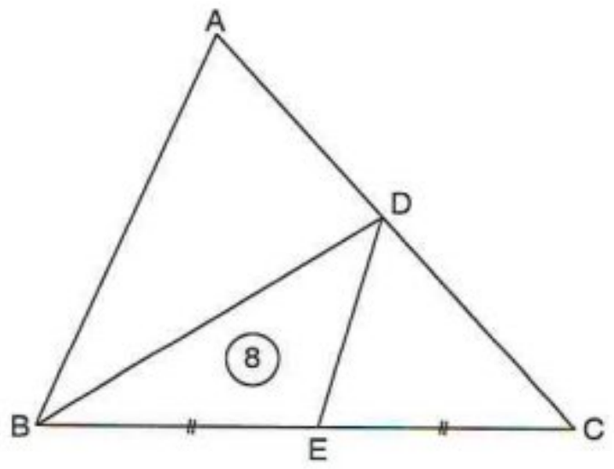


$|DE| = 3|BD| = 3|EC|$
$A(ADE) = 15\,br^2$
$A(ABD) = S_1\,br^2$
$A(AEC) = S_2\,br^2$

⇒ **$S_1 + S_2$ = ?**

A) 5 B) 10 C) 15 D) 20 E) 25

3.

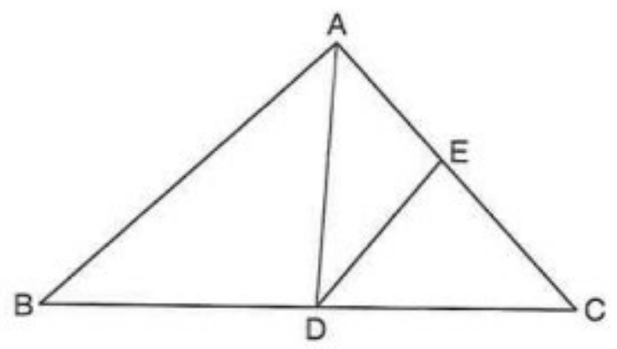


$|CD| = 2|AD|$
$|BE| = |EC|$
$A(BED) = 8\,br^2$

⇒ **A(ABC) = ?**

A) 18 B) 20 C) 22 D) 24 E) 26

4.

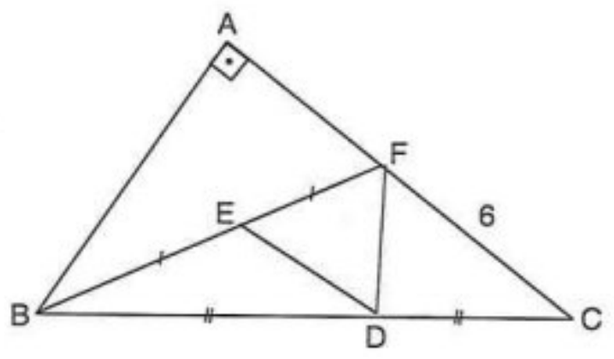


$|BD| = |DC|$
$3|AE| = 2|EC|$
$A(ABD) = 30\,br^2$

⇒ **A(ADE) = ?**

A) 5 B) 6 C) 10 D) 12 E) 18

5.

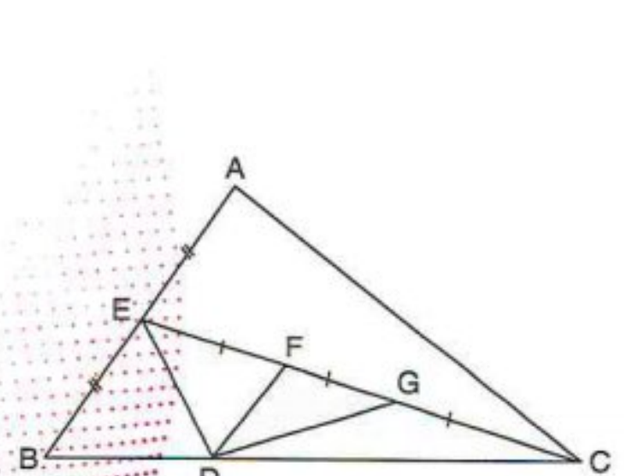


$[AB] \perp [AC]$
$|BD| = |DC|$
$|BE| = |EF|$
$|AB| = 10\,br$
$|FC| = 6\,br$

⇒ **A(EDF) = ?**

A) 5 B) $\frac{15}{2}$ C) 10 D) $\frac{25}{2}$ E) 15

6.



$|AE| = |EB|$
$|EF| = |FG| = |GC|$
$3|BD| = 2|DC|$
$A(ABC) = 50\,br^2$

⇒ **A(FDG) = ?**

A) 2 B) 3 C) 4 D) 5 E) 6

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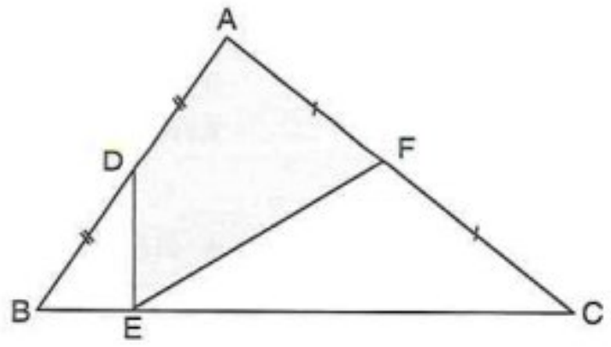
7.



$|AD| = |DB|$
$|AF| = |FC|$
$4|BE| = |BC|$
$A(ABC) = 48\,br^2$

⇒ **A(ADEF) = ?**

A) 20 B) 22 C) 24 D) 26 E) 28

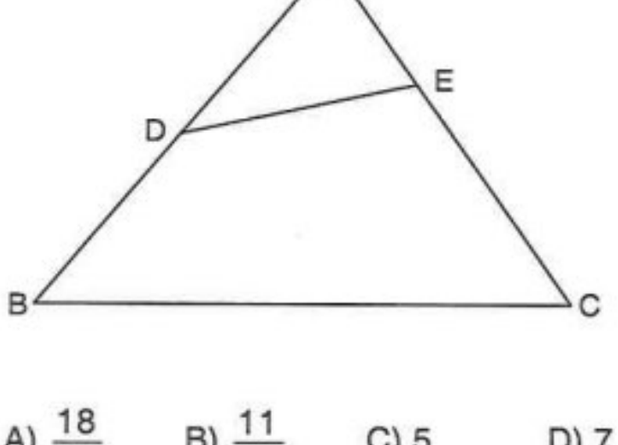
8.

$3|AE| = |EC|$
$3|AD| = 2|BD|$

⇒ $\frac{\textbf{A(BDEC)}}{\textbf{A(ADE)}} = ?$

A) $\frac{18}{7}$ B) $\frac{11}{2}$ C) 5 D) 7 E) 9

9.

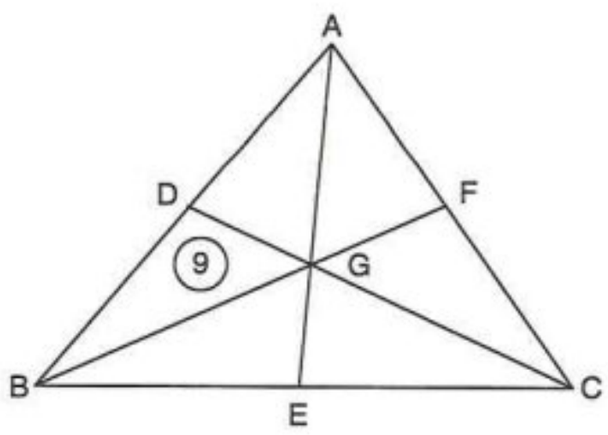


$|AB| = 7\,br$
$|AC| = 8\,br$
$|BC| = 9\,br$

⇒ **A(ABC) = ?**

A) $4\sqrt{5}$ B) $6\sqrt{5}$ C) $8\sqrt{5}$ D) $12\sqrt{5}$ E) $16\sqrt{5}$

10.

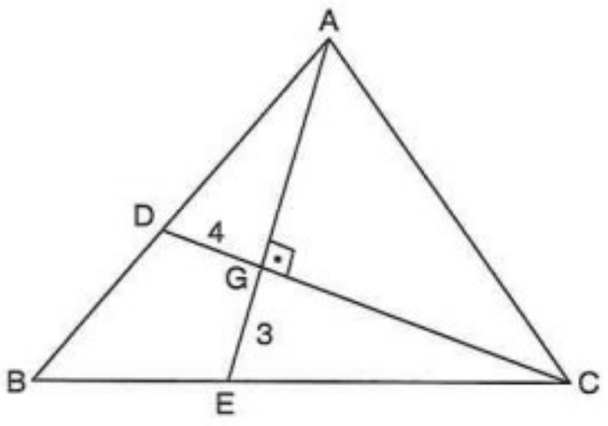


G, ağırlık merkezi
(center of gravity)
$A(BDG) = 9\,br^2$

⇒ **A(ABC) = ?**

A) 36 B) 45 C) 54 D) 63 E) 72

11.

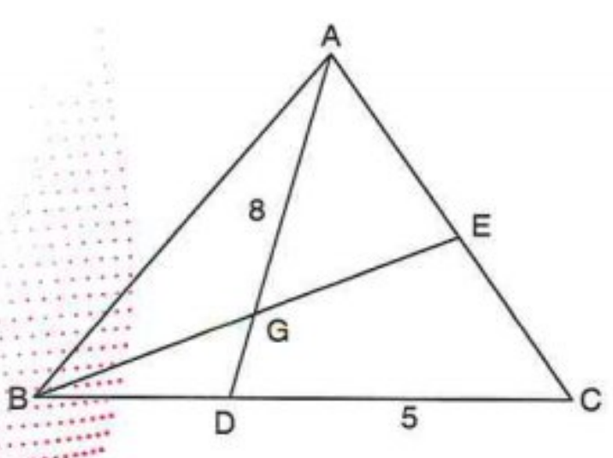


G, ağırlık merkezi
(center of gravity)
$[CD] \perp [AE]$
$|EG| = 3\,br$
$|DG| = 4\,br$

⇒ **A(ABC) = ?**

A) 36 B) 48 C) 54 D) 72 E) 96

12.



G, ağırlık merkezi
(center of gravity)
$|AB| = |AC|$
$|AG| = 8\,br$
$|DC| = 5\,br$

⇒ **A(ABC) = ?**

A) 40 B) 50 C) 60 D) 80 E) 120

1. D	2. B	3. D	4. D	5. B	6. D
7. C	8. E	9. D	10. C	11. D	12. C

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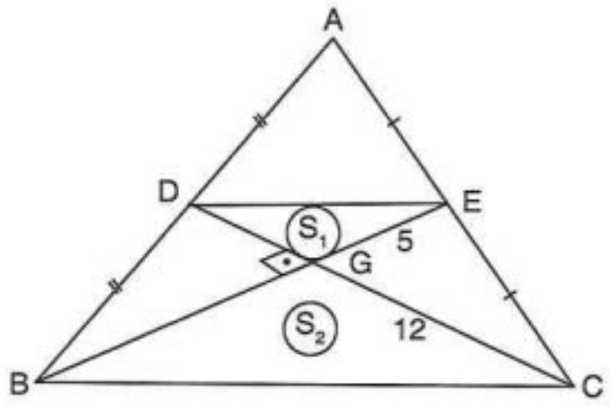
1.

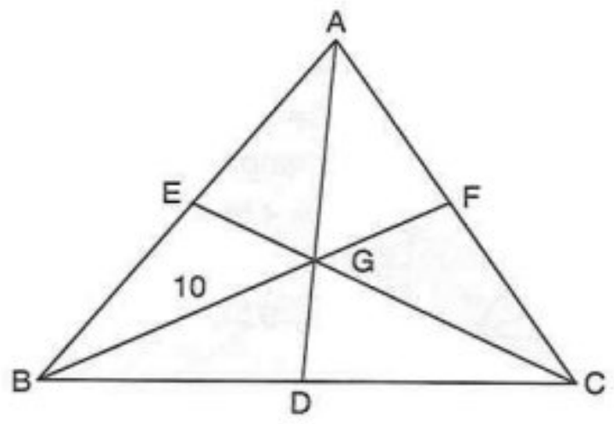


$[CD] \perp [BE]$
$|GE| = 5\,br$
$|GC| = 12\,br$
$A(DGE) = S_1$
$A(BGC) = S_2$

$\Rightarrow$ **$S_1 + S_2 = ?$**

A) 50 B) 60 C) 75 D) 85 E) 90

2.

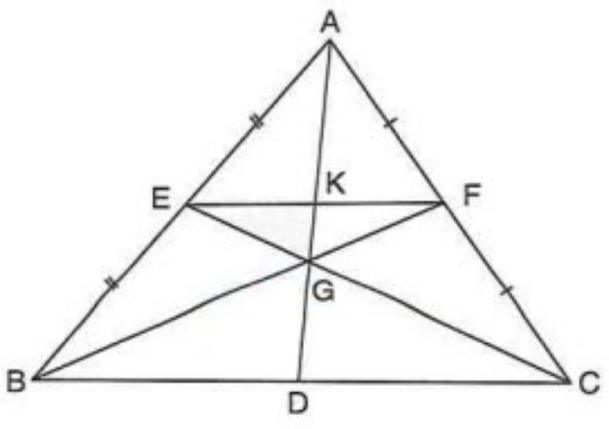


G, ağırlık merkezi
(center of gravity)
$|AB| = |BC|$
$|BG| = 10\,br$
$|AC| = 12\,br$

$\Rightarrow$ **Taralı Alan = ?**
(shaded area)

A) 30 B) 45 C) 60 D) 75 E) 90

3.

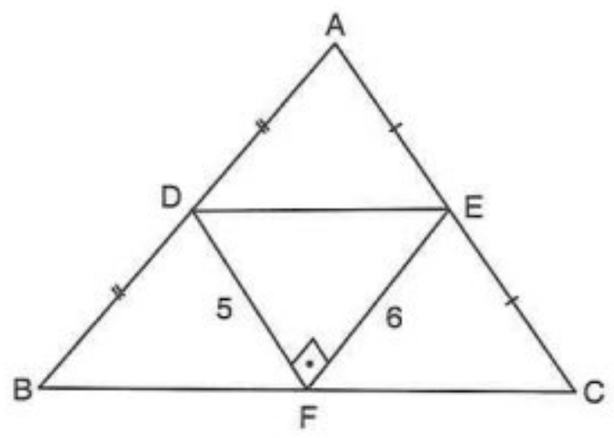


G, ağırlık merkezi
(center of gravity)
$A(ABC) = 144\,br^2$

$\Rightarrow$ **$A(EGK) = ?$**

A) 6 B) 8 C) 9 D) 12 E) 16

4.

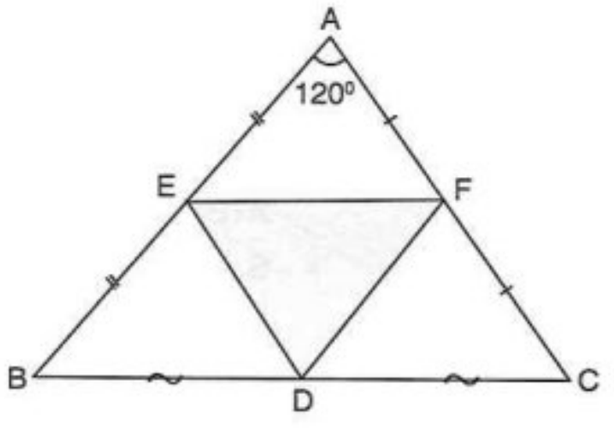


$[DF] \perp [FE]$
$|AD| = |DB|$
$|AE| = |EC|$
$|DF| = 5\,br$
$|FE| = 6\,br$

$\Rightarrow$ **$A(ABC) = ?$**

A) 30 B) 40 C) 45 D) 50 E) 60

5.

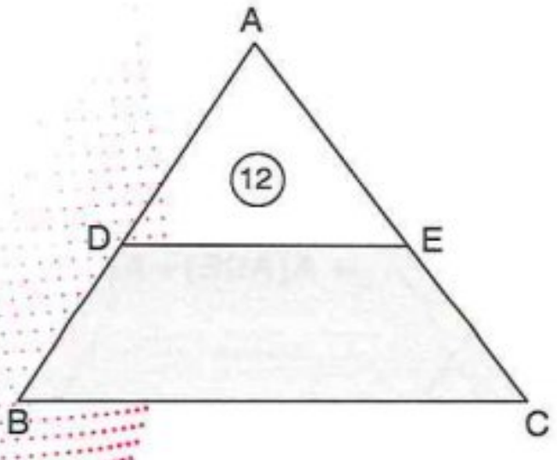


$m(\widehat{BAC}) = 120°$
$|AE| = |EB|$
$|AF| = |FC|$
$|BD| = |DC|$
$|AB| = 8\,br$
$|AC| = 12\sqrt{3}\,br$

$\Rightarrow$ **$A(DEF) = ?$**

A) 18 B) 25 C) 32 D) 48 E) 60

6.



$[DE] \parallel [BC]$
$|AD| = 2|BD|$
$A(ADE) = 12\,br^2$

$\Rightarrow$ **$A(BCED) = ?$**

A) 15 B) 18 C) 24 D) 27 E) 36

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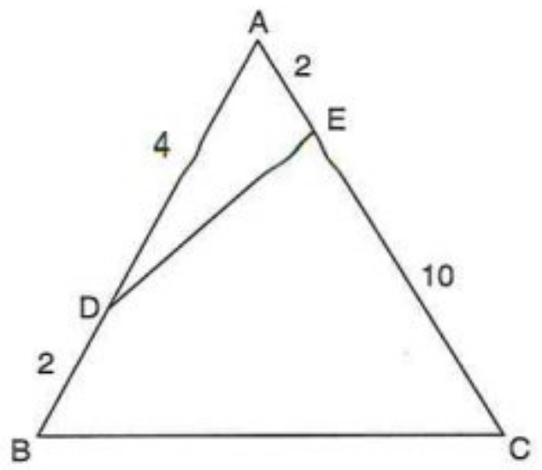
7.

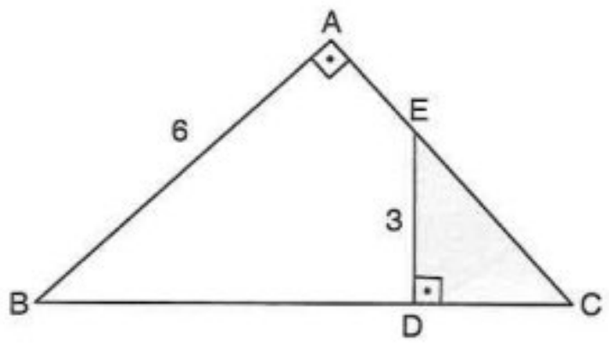


$|BD| = |AE| = 2\,br$
$|AD| = 4\,br$
$|EC| = 10\,br$
$A(ADE) = 4\,br^2$

⇒ **A(BCED) = ?**

A) 12 B) 18 C) 24 D) 32 E) 48

8.

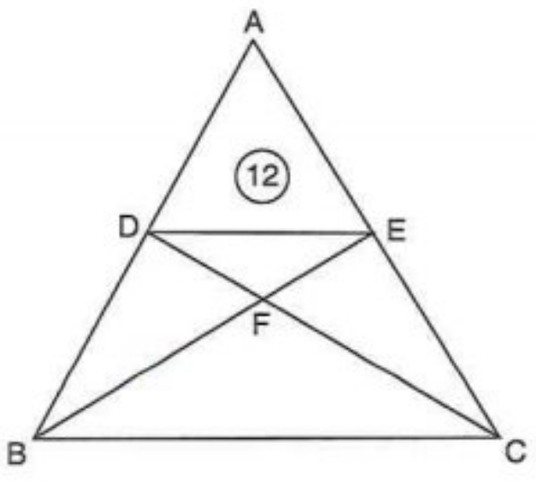


$[AB] \perp [AC]$
$[ED] \perp [BC]$
$A(ABDE) = 18\,br^2$

⇒ **A(DEC) = ?**

A) 3 B) 6 C) 9 D) 12 E) 15

9.

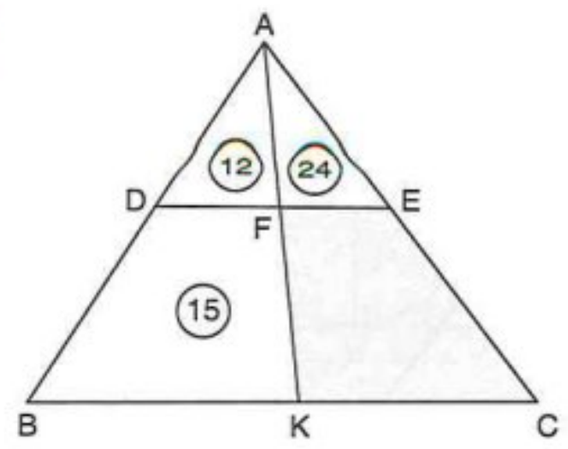


$[DE] /\!/ [BC]$
$3|DF| = 2|FC|$
$A(ADE) = 12\,br^2$

⇒ **A(ABC) = ?**

A) 18 B) 21 C) 27 D) 36 E) 54

10.

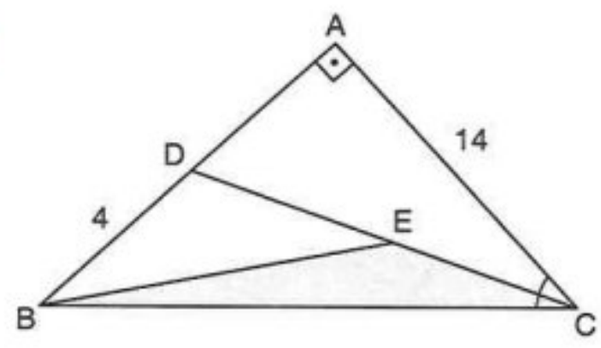


$[DE] /\!/ [BC]$
$A(ADF) = 12\,br^2$
$A(BKFD) = 15\,br^2$
$A(AFE) = 24\,br^2$

⇒ **A(KCEF) = ?**

A) 28 B) 30 C) 34 D) 36 E) 48

11.

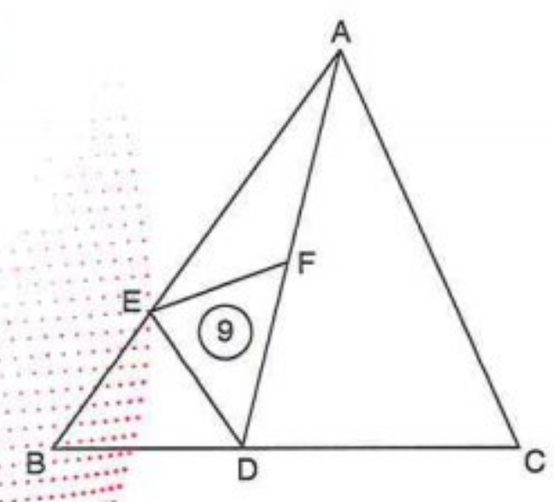


$[AB] \perp [AC]$
$3|DE| = 4|EC|$
$|AC| = 14\,br$
$|BD| = 4\,br$

⇒ **A(EBC) = ?**

A) 7 B) 12 C) 14 D) 16 E) 18

12.



$|DC| = 4|BD|$
$|AE| = 3|EB|$
$|AD| = 2|AF|$
$A(EFD) = 9\,br$

⇒ **A(ABC) = ?**

A) 72 B) 90 C) 96 D) 108 E) 120

1. C	2. C	3. D	4. C	5. A	6. A
7. D	8. B	9. C	10. B	11. B	12. E

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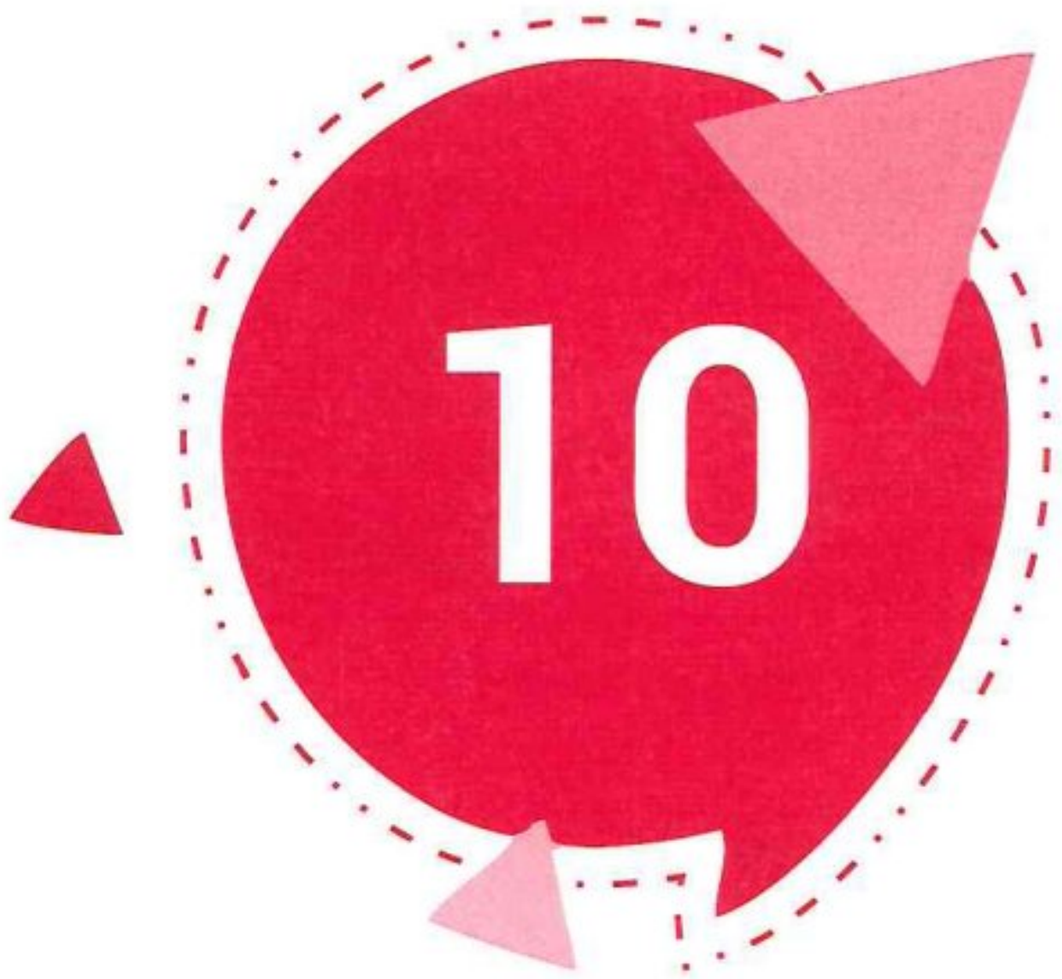

ÇOKGENLER
POLYGONS

KONU KAVRAMA TESTİ
Thread Grip Test

ZİHİN HARİTASI
Mind Map

4
TEST
Tests

72
SORU
Questions

CANER eğitim kurumları YÖS

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ÇOKGENLER
POLYGONS

CANER eğitim kurumları

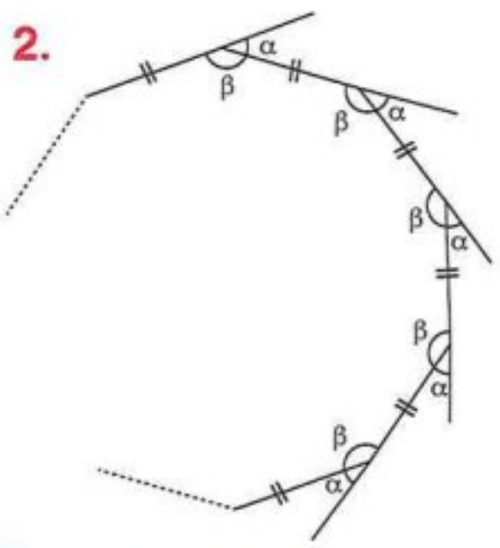
1. **n kenarlı bir konveks çokgen için**

- Konveks bir çokgenin çizilebilmesi için en az (2n – 3) tane elemanı bilinmelidir. Bunların en az (n – 2) tanesi uzunluk, (n – 1) tanesi açı olmalıdır.
- İç açıları toplamı (n – 2) · 180° dir.
- Dış açıları toplamı 360° dir.
- Bir köşeden çizilen köşegen sayısı (n – 3)'tür.
- Bütün köşegenlerin sayı $\frac{n(n-3)}{2}$ tür.
- Bir köşeden çizilen tüm köşegenler, çokgeni (n – 2) tane üçgene ayırır.

For a polygon with n edges

- In order to be drawn a convex polygon, at least (2n – 3) elements must be known. At least (n – 2) of them must be edge lengths, and (n – 1) of them must be angle measurements
- The sum of the interior angles is (n – 2) · 180°
- The sum of exterrior angles is 360°
- The number of diagonals drawn from a vertex is (n – 3)
- The number of all th diagonals is $\frac{n(n-3)}{2}$
- The diagonals that are drawn from a vertex to each other corners separate the polygon into (n – 2) triangles

2.

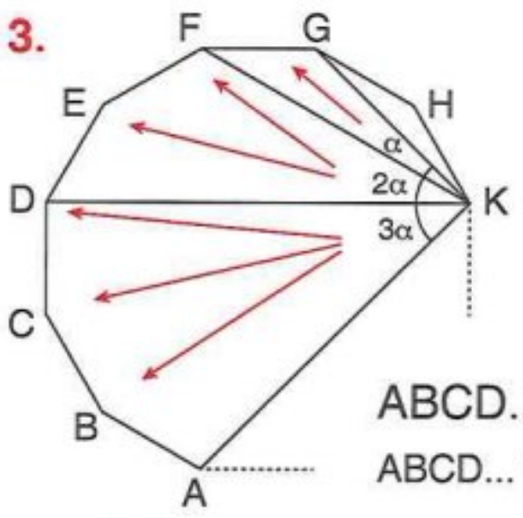


$$\beta = \frac{(n-2)\cdot 180°}{n}$$

$$\alpha = \frac{360°}{n}$$

$$\alpha + \beta = 180°$$

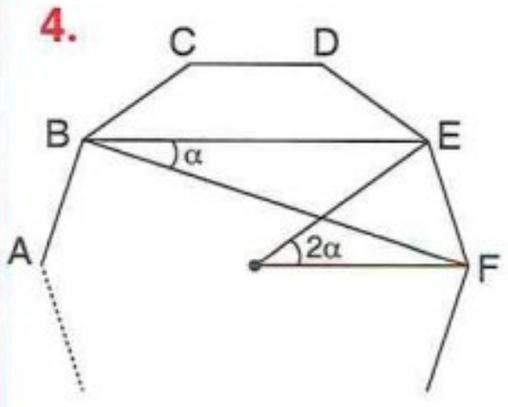
3.



ABCD... düzgün çokgen

ABCD... is a regular polygon

4.



O merkezli n kenarlı düzgün çokgen

A regular polygon having n edges, with a center O

$$\frac{2\cdot\alpha}{360°} = \frac{1}{n}$$

$$n = \frac{180°}{\alpha}$$

5.

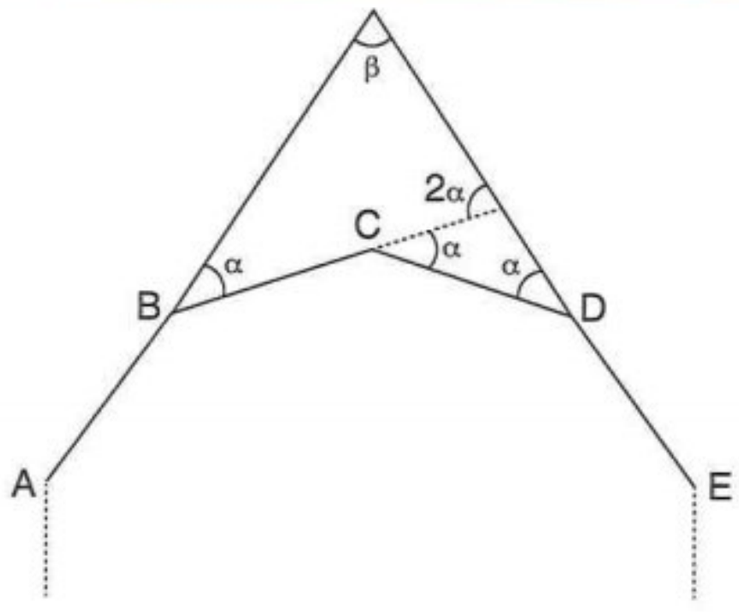
O merkezli n kenarlı düzgün çokgen

A regular polygon having n edges, with a center O

$$\frac{3a+2a}{2} = \alpha \qquad \frac{\frac{2\alpha}{5}}{360°} = \frac{1}{n}$$

$$a = \frac{2\cdot\alpha}{5}$$

6.



O merkezli n kenarlı düzgün çokgen

A regular polygon having n edges, with a center O

$$3\alpha + \beta = 180° \qquad \frac{360°}{n} = \alpha$$

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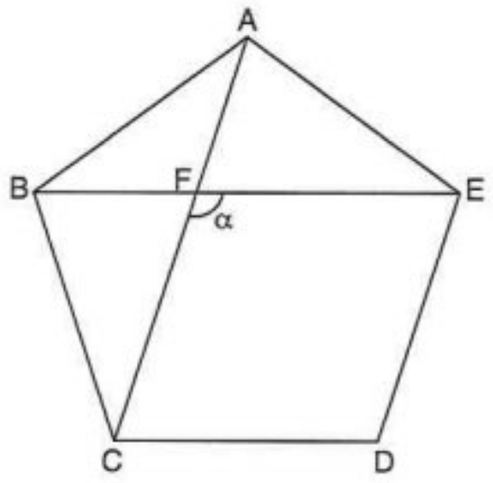
1.

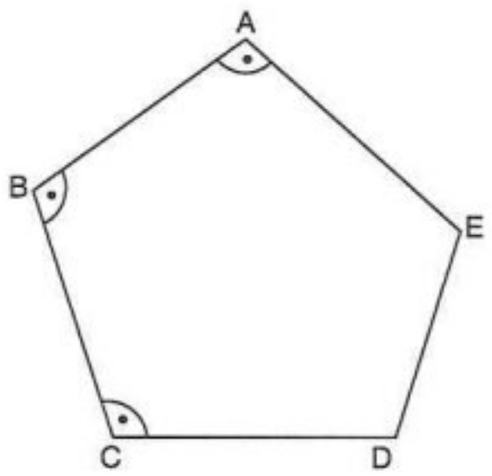


ABCDE düzgün beşgen (*regular pentagon*)

$\Rightarrow m(\widehat{EFC}) = \alpha = ?$

A) 72° B) 96° C) 108° D) 132° E) 144°

2.



ABCDE beşgen (*pentagon*)

$m(\widehat{A}) = m(\widehat{B}) = m(\widehat{C})$

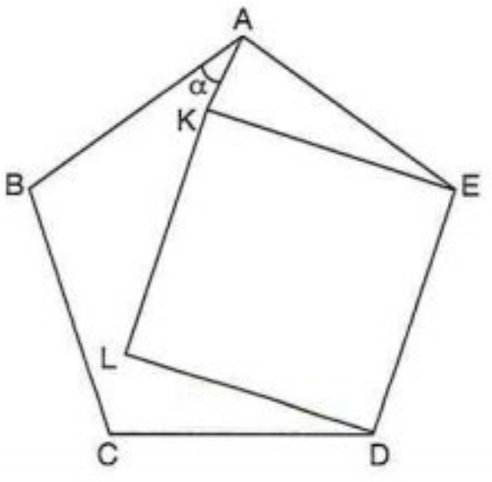
$m(\widehat{D}) = 80°$

$m(\widehat{E}) = 130°$

$\Rightarrow m(\widehat{A}) = ?$

A) 90° B) 100° C) 110° D) 120° E) 130°

3.



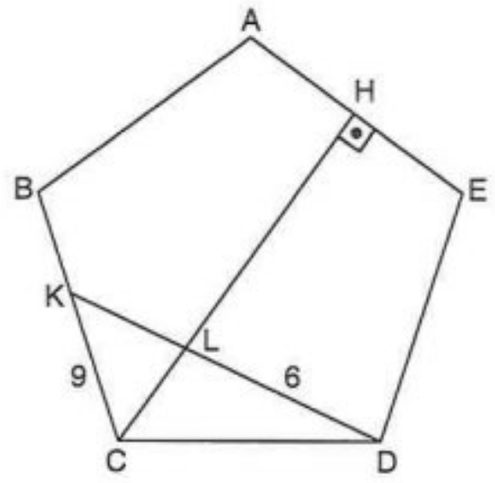
ABCDE düzgün beşgen (*regular pentagon*)

DEKL kare (*square*)

$\Rightarrow m(\widehat{BAK}) = \alpha = ?$

A) 18° B) 27° C) 32° D) 36° E) 40°

4.



ABCDE düzgün beşgen (*regular pentagon*)

$[CH] \perp [AE]$

$|BK| = 3\,br$

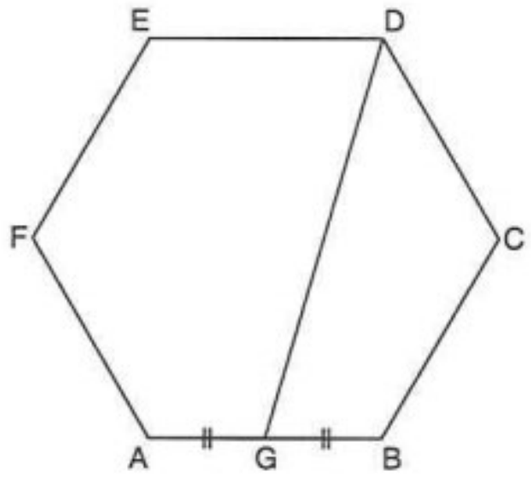
$|KC| = 9\,br$

$|LD| = 6\,br$

$\Rightarrow |KL| = ?$

A) $\frac{3}{2}$ B) 2 C) 3 D) 4 E) $\frac{9}{2}$

5.



ABCDEF düzgün altıgen (*regular hexagon*)

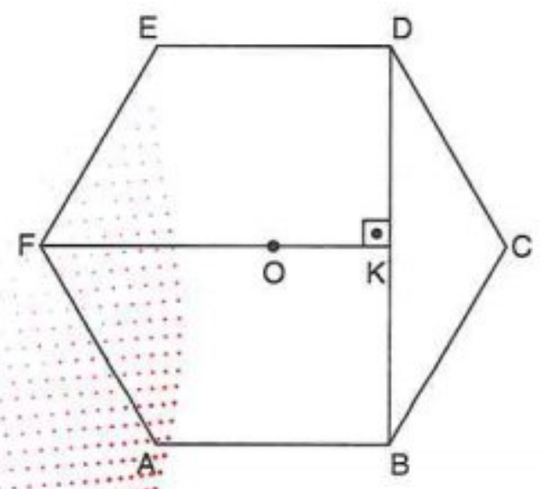
$|AG| = |GB|$

$|ED| = 6\,br$

$\Rightarrow |GD| = ?$

A) $3\sqrt{6}$ B) $3\sqrt{7}$ C) $3\sqrt{10}$ D) $3\sqrt{13}$ E) $3\sqrt{15}$

6.



ABCDEF düzgün altıgen (*regular hexagon*)

$[FK] \perp [DB]$

$|FO| = |DC|$

$|DK| = 2\,br$

$\Rightarrow A(BDC) = ?$

A) $\frac{2\sqrt{3}}{3}$ B) $\frac{2\sqrt{6}}{3}$ C) $4\sqrt{2}$ D) $\frac{4\sqrt{3}}{3}$ E) $4\sqrt{6}$

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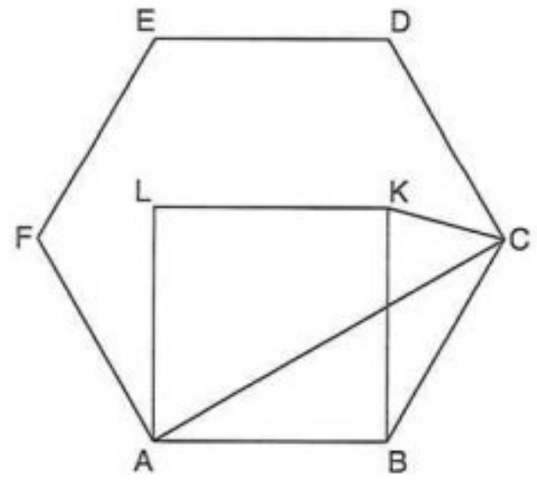
7.

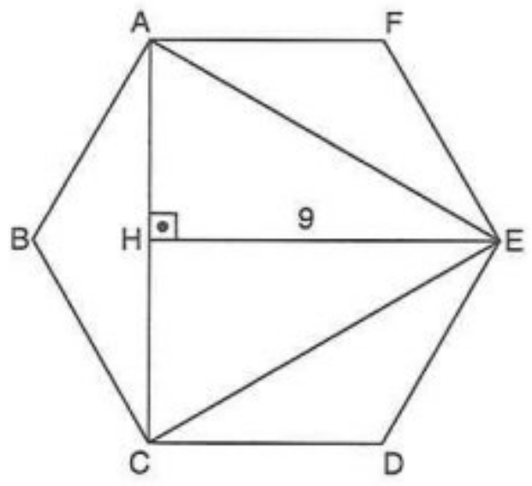


ABCDEF düzgün altıgen (*regular hexagon*)
ABKL kare (square)

$\Rightarrow \dfrac{m(\widehat{BKC})}{m(\widehat{ACB})} = ?$

A) $\frac{2}{5}$ B) $\frac{1}{2}$ C) $\frac{3}{4}$ D) 2 E) $\frac{5}{2}$

8.

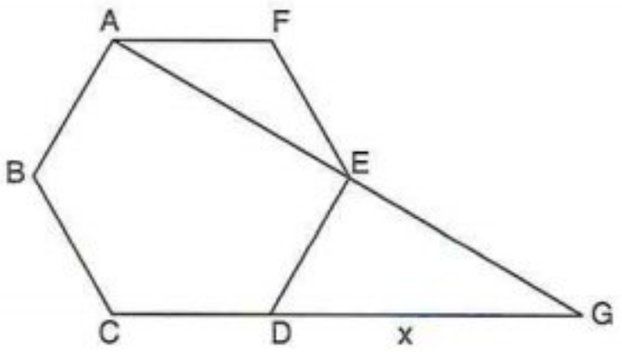


ABCDEF düzgün altıgen (*regular hexagon*)
$[EH] \perp [AC]$
$|EH| = 9$ br

$\Rightarrow$ **Ç(ABCDEF) = ?**

A) 18 B) 24 C) 36 D) 48 E) 54

9.

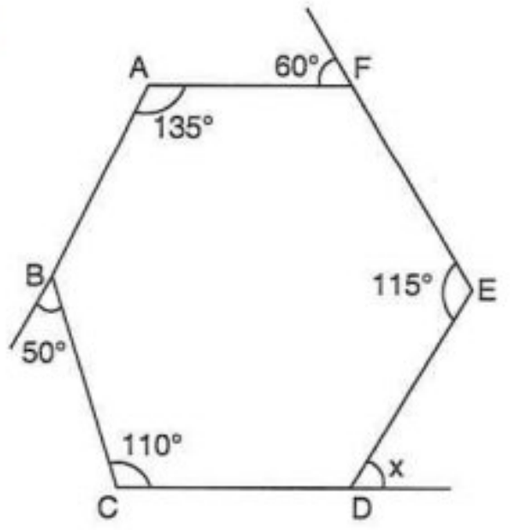


ABCDEF düzgün altıgen (*regular hexagon*)
$|BC| = 6$ br

$\Rightarrow |DG| = x = ?$

A) $3\sqrt{3}$ B) 6 C) $6\sqrt{2}$ D) 12 E) $6\sqrt{3}$

10.

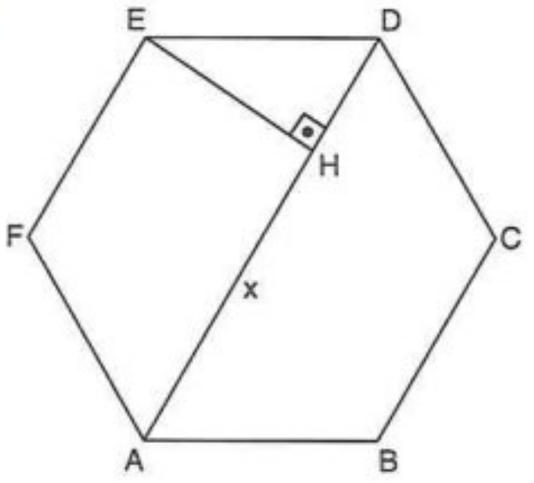


ABCDEF altıgen (*hexagon*)

$\Rightarrow x = ?$

A) 40 B) 50 C) 60 D) 70 E) 80

11.

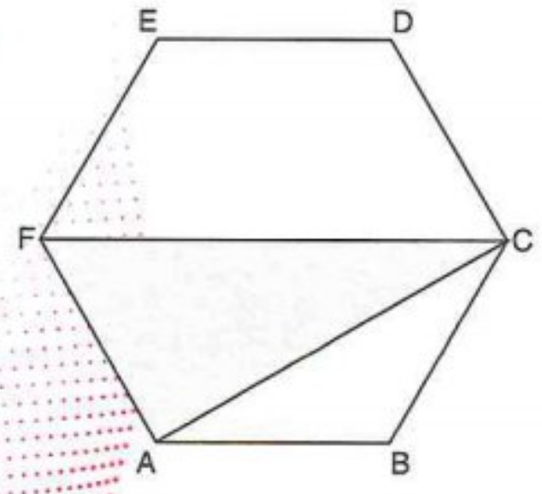


ABCDEF düzgün altıgen (*regular hexagon*)
$[EH] \perp [AD]$
$|EH| = 6$ br

$\Rightarrow |AH| = x = ?$

A) $4\sqrt{3}$ B) 6 C) $3\sqrt{6}$ D) 12 E) $6\sqrt{3}$

12.



ABCDEF düzgün altıgen (*regular hexagon*)
$|AB| = 4$ br

$\Rightarrow$ **A(AFC) = ?**

A) $4\sqrt{3}$ B) $6\sqrt{3}$ C) $8\sqrt{3}$ D) $12\sqrt{3}$ E) $16\sqrt{3}$

1. C	2. C	3. B	4. E	5. D	6. D
7. E	8. C	9. D	10. D	11. E	12. C

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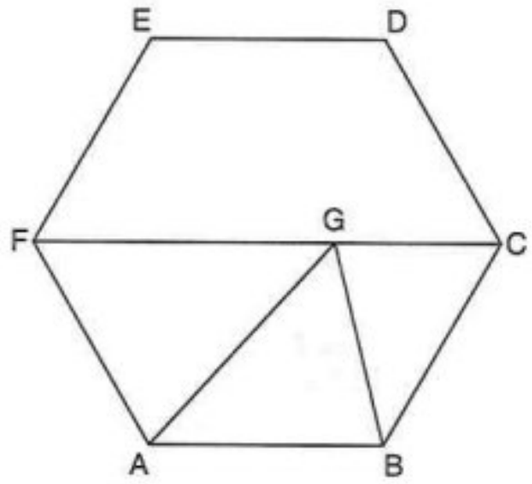
13.



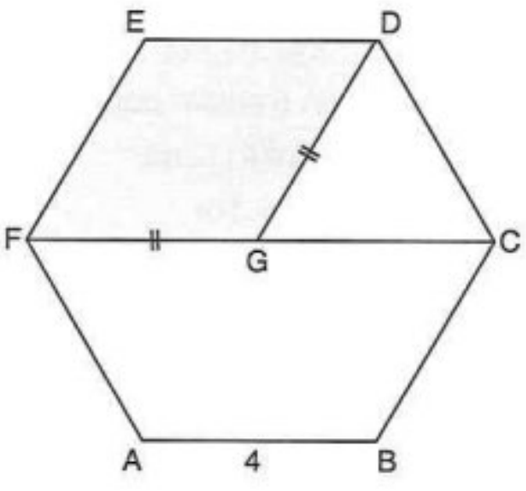
ABCDEF düzgün altıgen (*regular hexagon*)

$|EF| = 6$ br

⇒ **A(AGB) = ?**

A) $6\sqrt{3}$ B) $9\sqrt{3}$ C) $12\sqrt{3}$ D) $15\sqrt{3}$ E) $18\sqrt{3}$

14.



ABCDEF düzgün altıgen (*regular hexagon*)

$[EF] \,//\, [GD]$

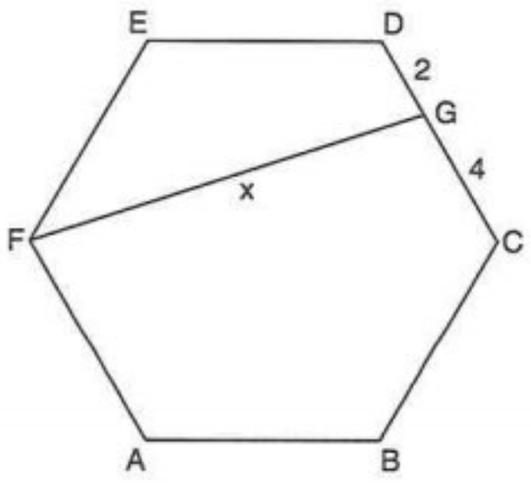
$|FG| = |GD|$

$|AB| = 4$ br

⇒ **A(FGDE) = ?**

A) $8\sqrt{3}$ B) $10\sqrt{3}$ C) $12\sqrt{3}$ D) $16\sqrt{3}$ E) $18\sqrt{3}$

15.



ABCDEF düzgün altıgen (*regular hexagon*)

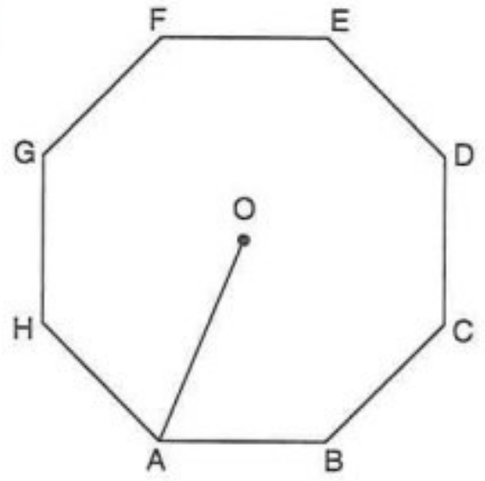
$|DC| = 2$ br

$|GC| = 4$ br

⇒ **$|FG| = x = ?$**

A) $2\sqrt{6}$ B) $2\sqrt{7}$ C) $3\sqrt{5}$ D) $4\sqrt{6}$ E) $4\sqrt{7}$

16.



ABCDEFGH düzgün sekizgen, (*regular octagon*)

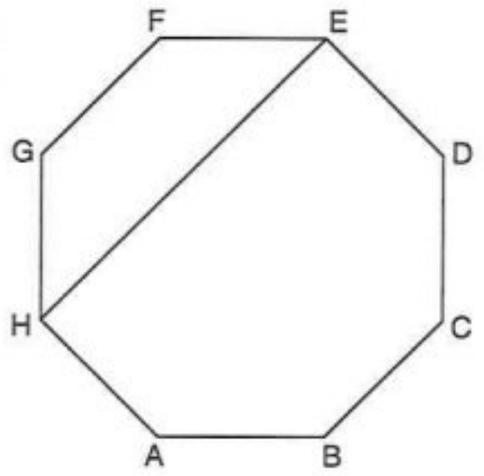
O, ağırlık merkezi (center of gravity)

$|OA| = 6$ br

⇒ **A(ABCDEFGH) = ?**

A) 48 B) $48\sqrt{2}$ C) 72 D) $72\sqrt{2}$ E) 96

17.



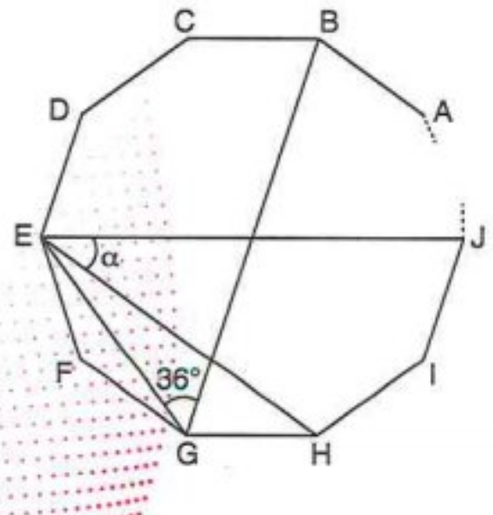
ABCDEFGH düzgün sekizgen (*regular octagon*)

$|HE| = (4\sqrt{2} + 8)$ br

⇒ **Ç(ABCDEFGH) = ?**

A) 16 B) $16\sqrt{2}$ C) 32 D) $32\sqrt{2}$ E) 48

18.



...ABCDEFGHIJ... düzgün çokgen (*regular polygon*)

$m(\widehat{EGB}) = 36°$

⇒ **$m(\widehat{JEH}) = \alpha = ?$**

A) 12 B) 18 C) 24 D) 28 E) 36

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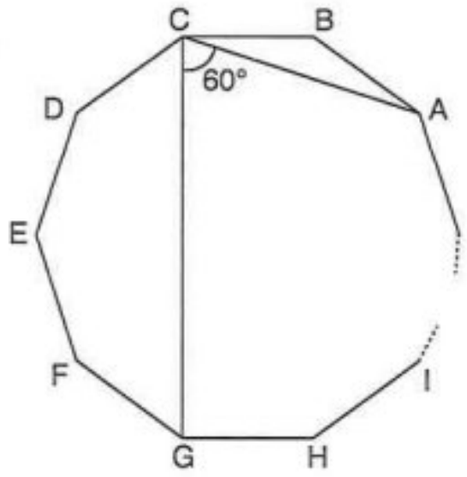
19.



...ABCDEFGHI... düzgün çokgen (*regular polygon*)

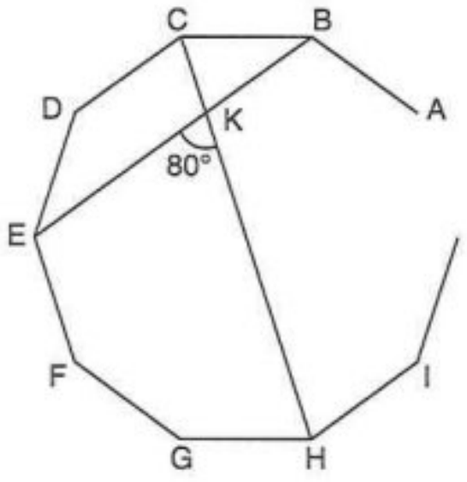
$m(\widehat{GCA}) = 60°$

$|BC| = 2\,br$

⇒ Ç (...ABCDEFGH...) = ?

A) 14 B) 16 C) 18 D) 20 E) 24

20.



...ABCDEFGH... düzgün çokgen (*regular polygon*)

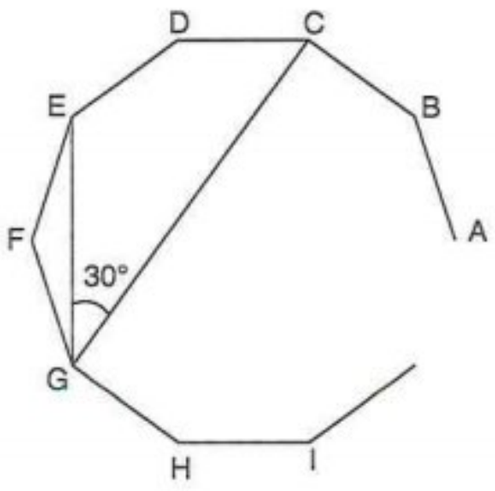
$m(\widehat{EKH}) = 80°$

$|DE| = 6\,br$

⇒ Ç (...ABCDEFGH...) = ?

A) 30 B) 36 C) 45 D) 48 E) 54

21.



...ABCDEFGH... düzgün çokgen (*regular polygon*)

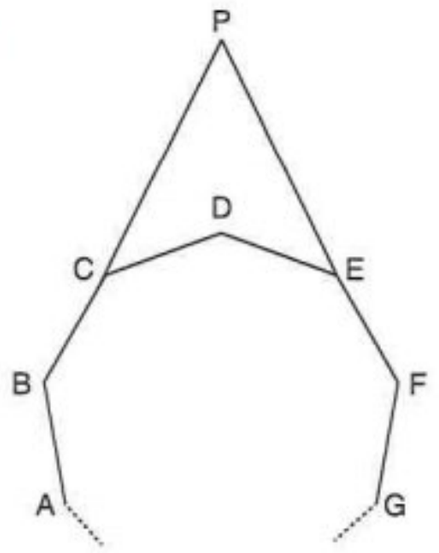
$m(\widehat{EGC}) = 30°$

$|AB| = 2\,br$

⇒ Ç (...ABCDEFGH...) = ?

A) 12 B) 18 C) 20 D) 24 E) 30

22.



...ABCDEFG... n kenarlı düzgün çokgen

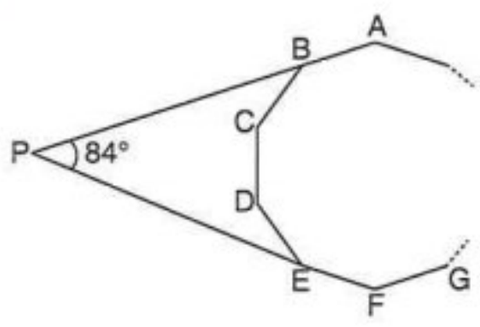
...ABCDEFG... is a regular polygon with n edges

$m(\widehat{BPF}) = 72°$

⇒ n = ?

A) 8 B) 9 C) 10 D) 11 E) 12

23.



...ABCDEFG... düzgün çokgen (*regular polygon*)

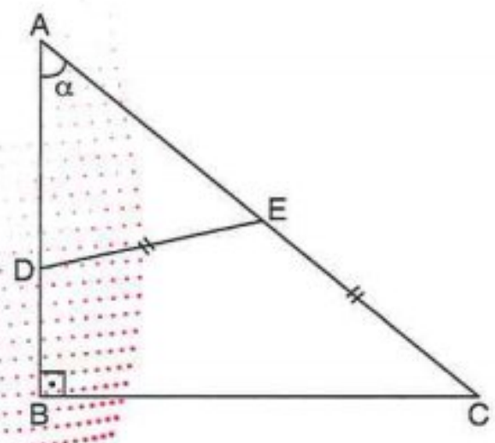
$m(\widehat{APF}) = 84°$

$|EF| = 1br$

⇒ Ç (...ABCDEFG...) = ?

A) 18 B) 15 C) 12 D) 10 E) 9

24.



$[AB] \perp [BC]$

$|ED| = |EC| = 2|BD|$

⇒ $m(\widehat{BAC}) = \alpha = ?$

A) 18 B) 30 C) 45 D) 48 E) 54

13. B	14. A	15. E	16. D	17. D	18. C
19. C	20. E	21. D	22. C	23. B	24. E

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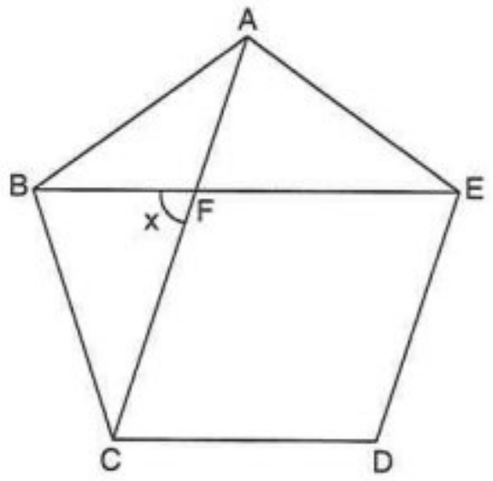
1.

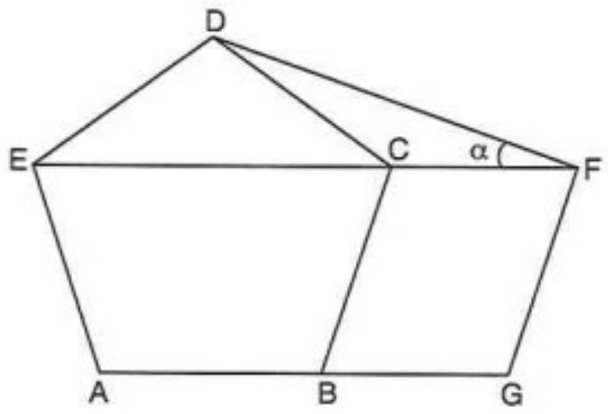


ABCDE düzgün beşgen (*regular pentagon*)

$\Rightarrow m(\widehat{BFC}) = x = ?$

A) 18° B) 24° C) 36° D) 48° E) 72°

2.



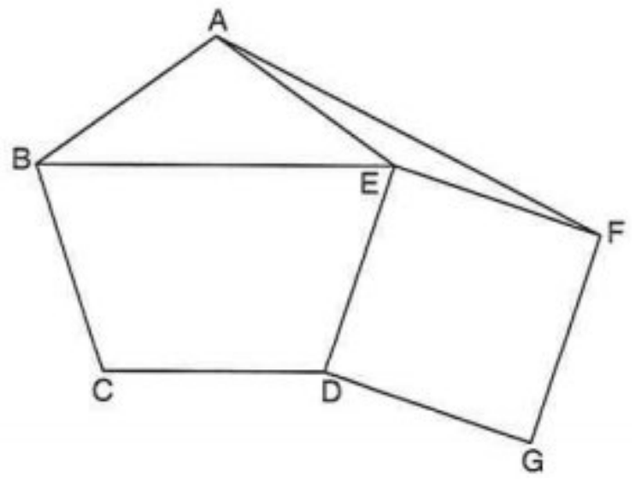
ABCDE düzgün beşgen, (*regular pentagon*)

BGFC eşkenar dörtgen (*rhombus*)

$\Rightarrow m(\widehat{DFC}) = \alpha = ?$

A) 72° B) 48° C) 36° D) 18° E) 9°

3.



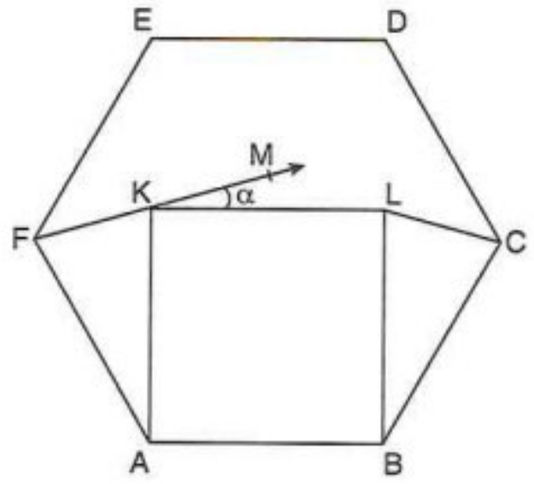
ABCDE düzgün beşgen, (*regular pentagon*)

DGFE kare (*square*)

$\Rightarrow m(\widehat{AFE}) = ?$

A) 9° B) 15° C) 18° D) 20° E) 24°

4.



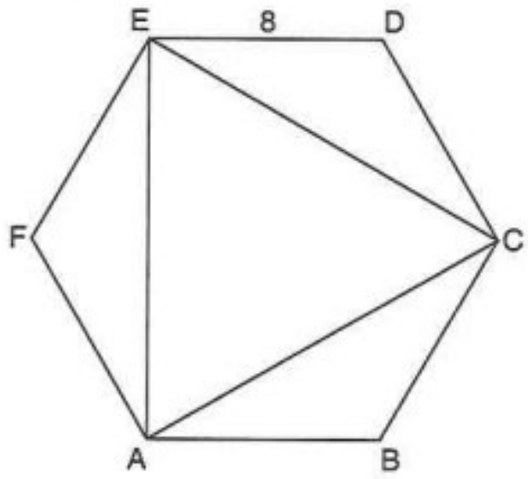
ABCDEF düzgün altıgen, (*regular hexagon*)

ABLK kare (sqaure)

$\Rightarrow m(\widehat{MKL}) = \alpha = ?$

A) 9° B) 12° C) 15° D) 18° E) 20°

5.



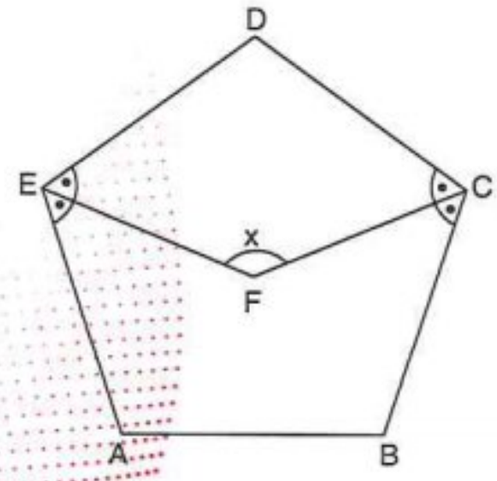
ABCDEF düzgün altıgen, (*regular hexagon*)

$|ED| = 8$ br

$\Rightarrow A(ACE) = ?$

A) $12\sqrt{3}$ B) $16\sqrt{3}$ C) $24\sqrt{3}$ D) $32\sqrt{3}$ E) $48\sqrt{3}$

6.



ABCDE düzgün beşgen, (*regular pentagon*)

[EF], [CF] açıortay (*bisector*)

$\Rightarrow m(\widehat{EFC}) = x = ?$

A) 64 B) 72 C) 108 D) 120 E) 144

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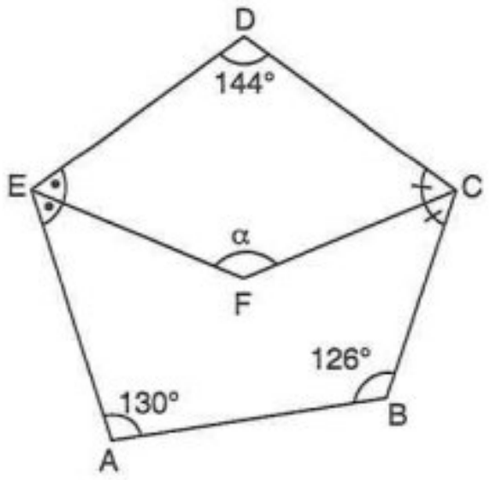
7.



ABCDE beşgen (*pentagon*)

$m(\widehat{DEF}) = m(\widehat{FEA})$

$m(\widehat{DCF}) = m(\widehat{FCB})$

$m(\widehat{A}) = 130°$

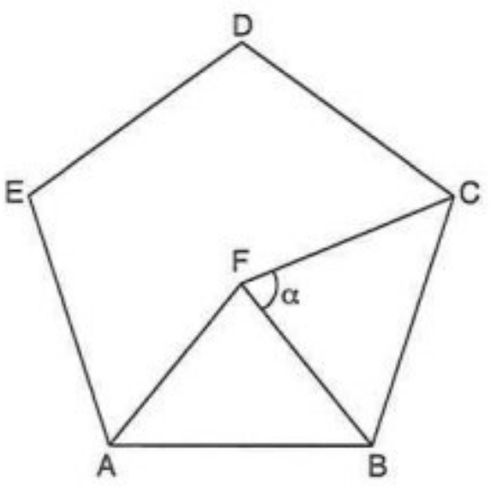
$m(\widehat{B}) = 126°$

$m(\widehat{D}) = 144°$

$\Rightarrow m(\widehat{EFC}) = \alpha = ?$

A) 146° B) 154° C) 168° D) 174° E) 178°

8.



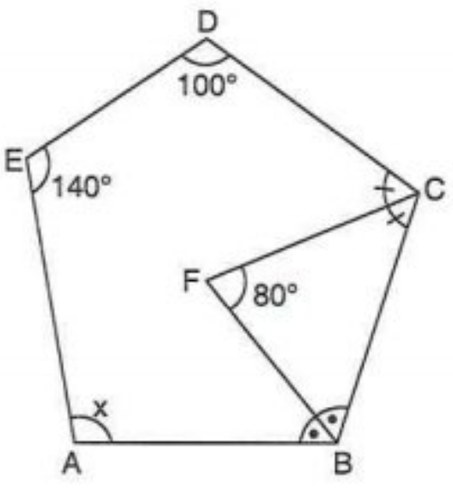
ABCDE düzgün beşgen (*regular pentagon*)

$|AF| = |AB| = |BF|$

$\Rightarrow m(\widehat{BFC}) = \alpha = ?$

A) 60° B) 66° C) 72° D) 76° E) 80°

9.



ABCDE beşgen (*pentagon*)

[FC], [FB] açıortay (*bisector*)

$m(\widehat{CFB}) = 80°$

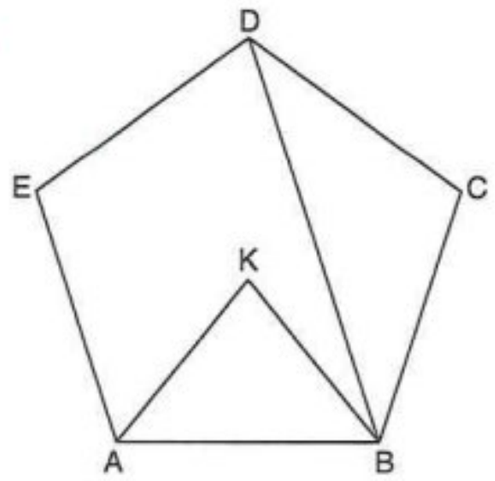
$m(\widehat{D}) = 100°$

$m(\widehat{E}) = 140°$

$\Rightarrow m(\widehat{A}) = x = ?$

A) 70° B) 80° C) 90° D) 100° E) 110°

10.



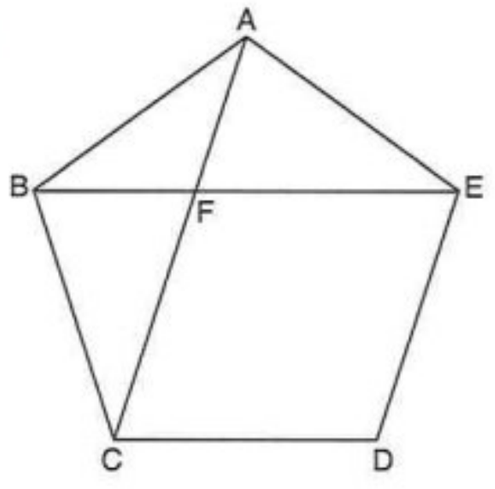
ABCDE düzgün beşgen (*regular pentagon*)

$|AK| = |KB| = |AB|$

$\Rightarrow m(\widehat{KBD}) = ?$

A) 10° B) 12° C) 14° D) 16° E) 18°

11.



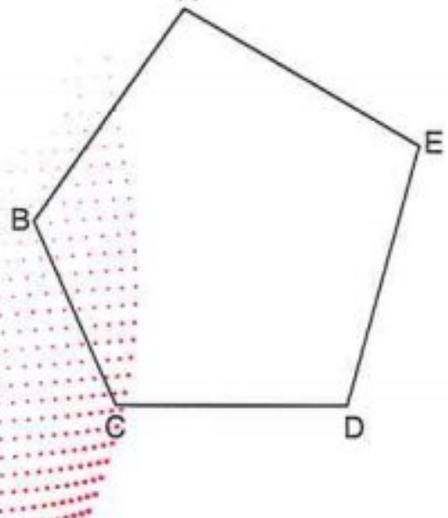
ABCDE düzgün beşgen (*regular pentagon*)

Ç (FCDE) = 48 cm

$\Rightarrow$ **Ç (ABCDE) = ?**

A) 24 B) 36 C) 48 D) 60 E) 72

12.



ABCDE beşgen (*pentagon*)

$m(\widehat{A}) = \frac{m(\widehat{B})}{2} = \frac{m(\widehat{C})}{3} = \frac{3m(\widehat{D})}{4}$

$m(\widehat{E}) = 140°$

$\Rightarrow m(\widehat{C}) = ?$

A) 40° B) 80° C) 100° D) 120° E) 160°

1. E	2. D	3. A	4. C	5. E	6. E
7. A	8. B	9. D	10. B	11. D	12. D

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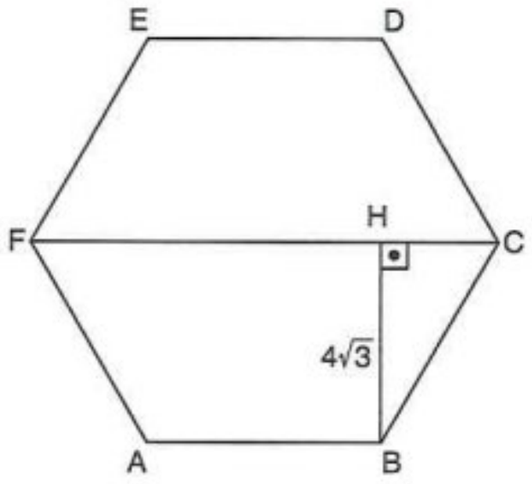
1.



ABCDEF düzgün altıgen (*regular hexagon*)

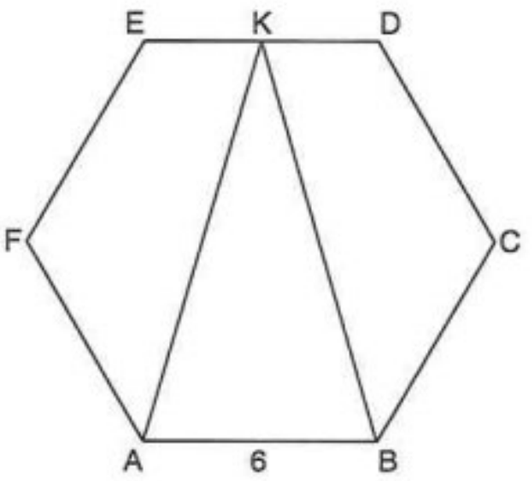
$[BH] \perp [FC]$

$|BH| = 4\sqrt{3}$ br

⇒ **Ç (ABCDEF) = ?**

A) 20 B) 24 C) 36 D) 42 E) 48

2.



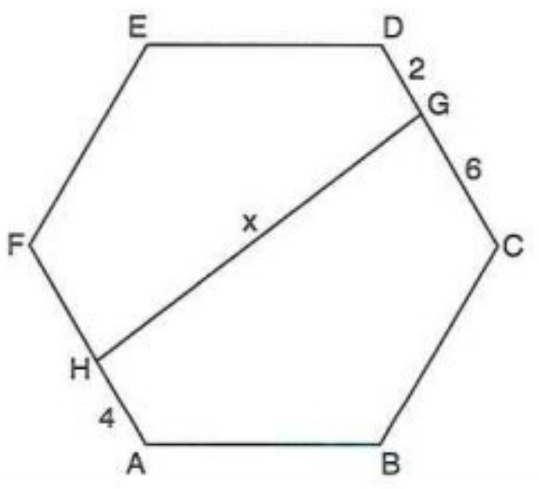
ABCDEF düzgün altıgen, (*regular hexagon*)

$|AB| = 6$ br

⇒ **A (AKB) = ?**

A) $14\sqrt{3}$ B) $18\sqrt{3}$ C) $24\sqrt{3}$ D) $30\sqrt{3}$ E) $36\sqrt{3}$

3.



ABCDEF düzgün altıgen, (*regular hexagon*)

$|DG| = 2$ br

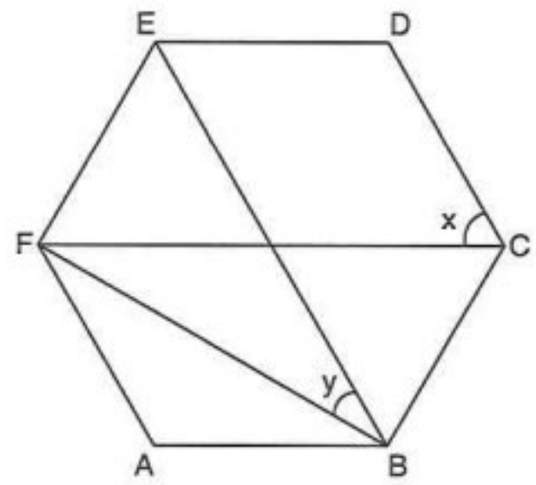
$|AH| = 4$ br

$|GC| = 6$ br

⇒ **$|HG| = x = ?$**

A) 12 B) 14 C) 16 D) 20 E) 21

4.



ABCDEF düzgün altıgen, (*regular hexagon*)

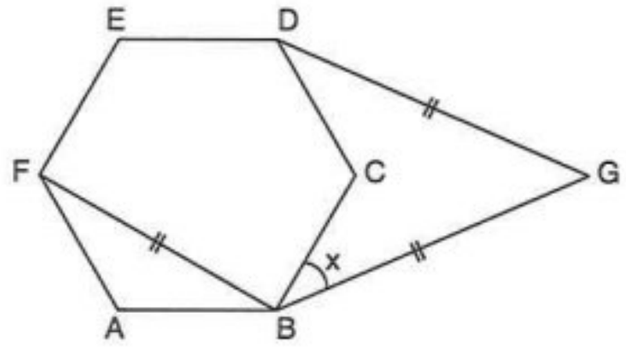
$m(\widehat{DCF}) = x°$

$m(\widehat{EBF}) = y°$

⇒ **x + y = ?**

A) 120° B) 110° C) 90° D) 75° E) 60°

5.



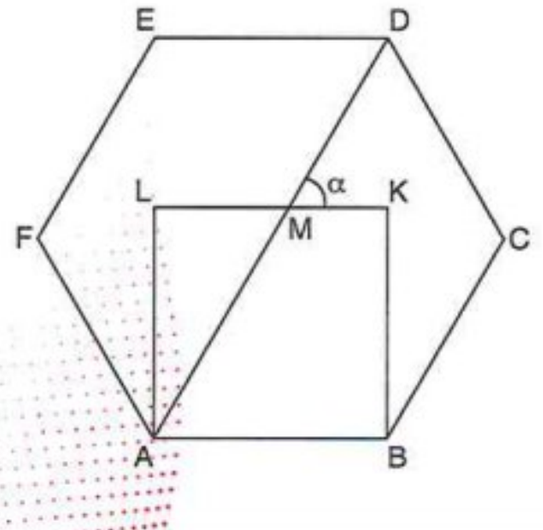
ABCDEF düzgün altıgen (*regular hexagon*)

$|DG| = |BG| = |BF|$

⇒ **$m(\widehat{CBG}) = x = ?$**

A) 15° B) 30° C) 45° D) 60° E) 75°

6.



ABCDEF düzgün altıgen, (*regular hexagon*)

ABKL kare (*square*)

⇒ **$m(\widehat{DMK}) = \alpha = ?$**

A) 30° B) 45° C) 60° D) 70° E) 75°

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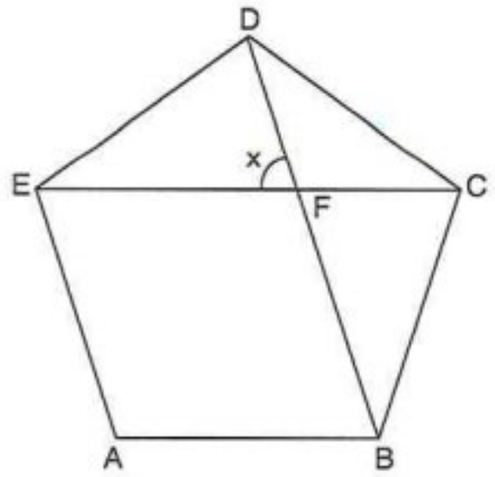
7.

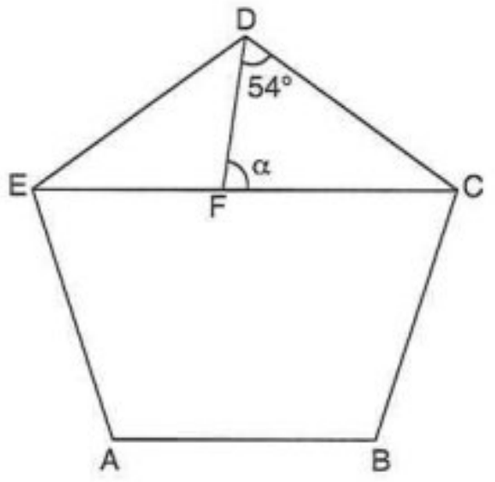


ABCDE düzgün beşgen (*regular pentagon*)

$\Rightarrow m(\widehat{EFD}) = x = ?$

A) 18^o B) 30^o C) 36^o D) 54^o E) 72^o

8.



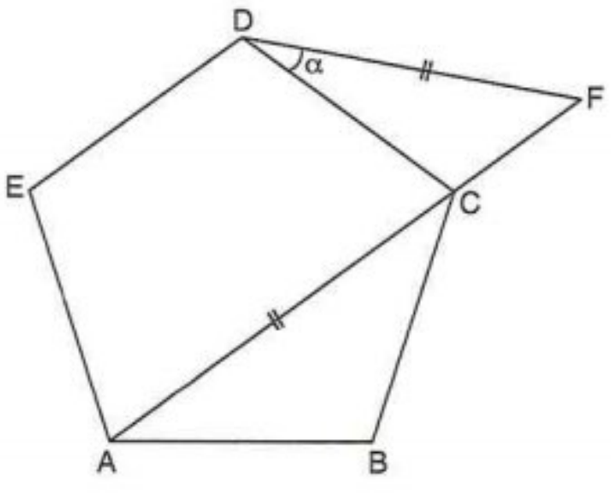
ABCDE düzgün beşgen (*regular pentagon*)

$m(\widehat{FDC}) = 54°$

$\Rightarrow m(\widehat{DFC}) = \alpha = ?$

A) 36^o B) 45^o C) 54^o D) 72^o E) 90^o

9.



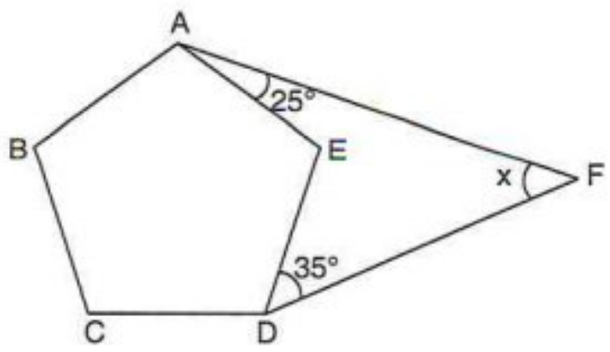
ABCDE düzgün beşgen (*regular pentagon*)

$|AC| = |DF|$

$\Rightarrow m(\widehat{CDF}) = \alpha = ?$

A) 18^o B) 24^o C) 32^o D) 36^o E) 54^o

10.



ABCDE düzgün beşgen (*regular pentagon*)

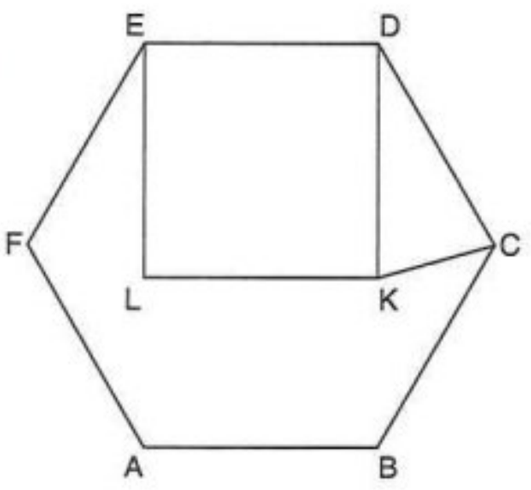
$m(\widehat{EAF}) = 25°$

$m(\widehat{EDF}) = 35°$

$\Rightarrow m(\widehat{AFD}) = x = ?$

A) 24^o B) 48^o C) 56^o D) 60^o E) 72^o

11.



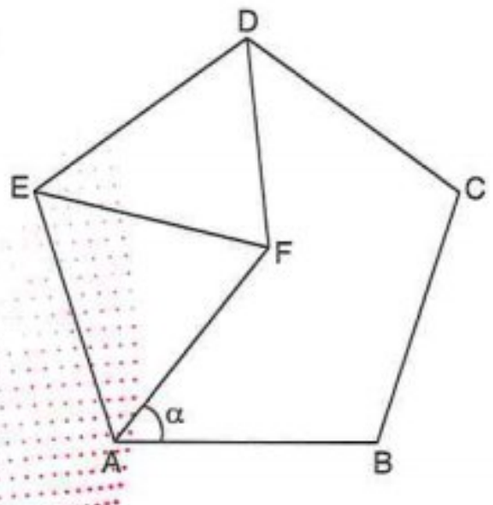
ABCDEF düzgün altıgen, (*regular hexagon*)

ELKD kare (*square*)

$\Rightarrow m(\widehat{KCB}) = ?$

A) 34^o B) 38^o C) 42^o D) 45^o E) 46^o

12.



ABCDE düzgün beşgen, (*regular pentagon*)

EDF eşkenar üçgen (*equilateral triangle*)

$\Rightarrow m(\widehat{FAB}) = \alpha = ?$

A) 34^o B) 38^o C) 42^o D) 44^o E) 46^o

1. E	2. B	3. B	4. C	5. B	6. C
7. E	8. E	9. D	10. B	11. D	12. C

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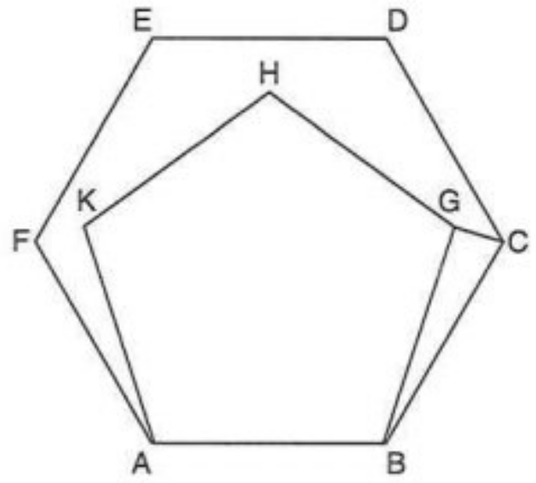
1.



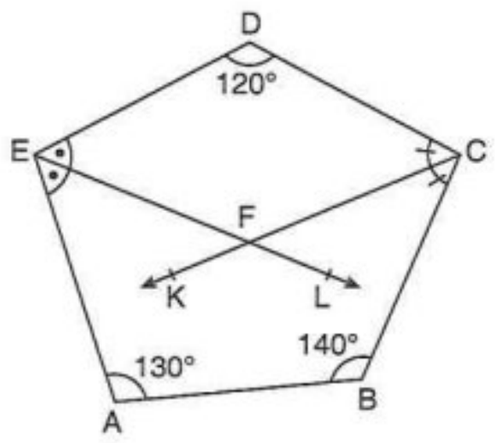
ABCDEF düzgün altıgen, (*regular hexagon*)

ABGHK düzgün beşgen (*regular pentagon*)

⇒ **m(G$\widehat{C}$D) = ?**

A) 24° B) 30° C) 36° D) 48° E) 54°

2.



ABCDE beşgen, (*pentagon*)

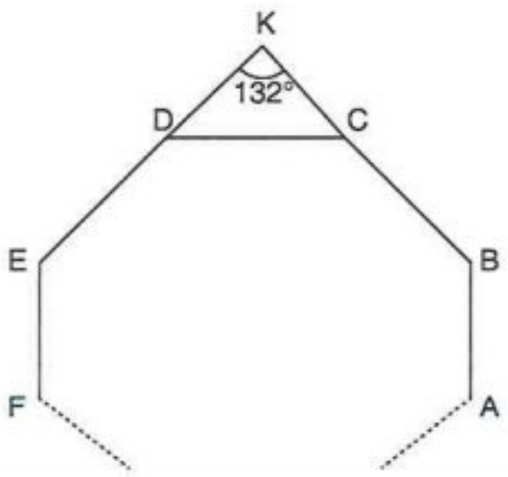
[EL, [CK açıortay (*bisector*)

m(D̂) = 120°
m(Â) = 130°
m(B̂) = 140°

⇒ **m(K$\widehat{F}$L) = ?**

A) 155° B) 160° C) 165° D) 170° E) 175°

3.



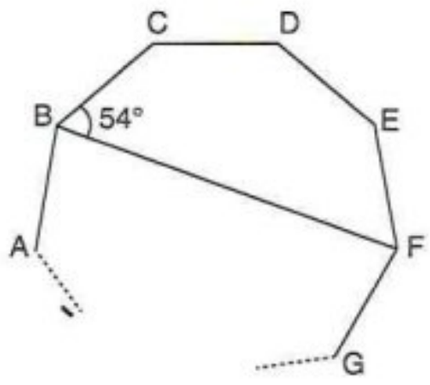
...ABCDEF... düzgün çokgen, (*regular polygon*)

m(E$\widehat{K}$B) = 132°

⇒ **kenar sayısı = ?** (*edge*)

A) 12 B) 15 C) 18 D) 20 E) 24

4.



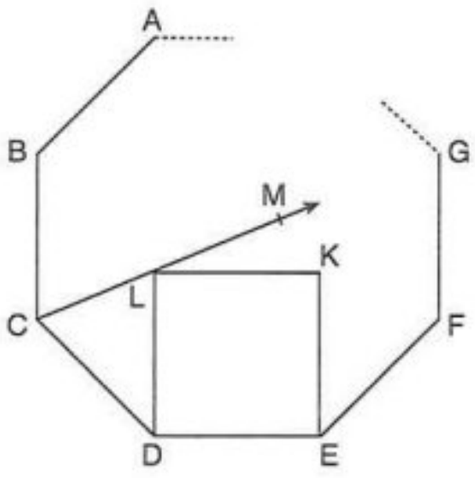
...ABCDEFG... n kenarlı düzgün çokgen,
...ABCDEFG... is a regular polygon with n edges

m(C$\widehat{B}$F) = 54°

⇒ **n = ?**

A) 8 B) 10 C) 12 D) 14 E) 16

5.



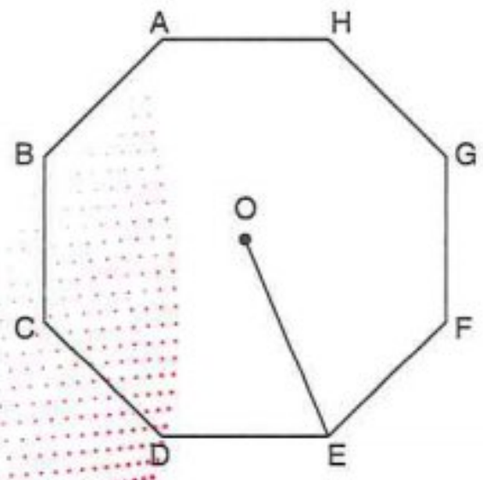
...ABCDEFG... düzgün onsekizgen (*octadecagon*)

DEKL kare (*square*)

⇒ **m(M$\widehat{L}$K) = ?**

A) 20° B) 25° C) 30° D) 35° E) 40°

6.



ABCDEFGH düzgün sekizgen, (*regular octagon*)
O, ağırlık merkezi (*center of gravity*)

|OE| = 6 br

⇒ **A(ABCDEFGH) = ?**

A) $36\sqrt{2}$ B) $44\sqrt{2}$ C) $54\sqrt{2}$ D) $72\sqrt{2}$ E) $96\sqrt{2}$

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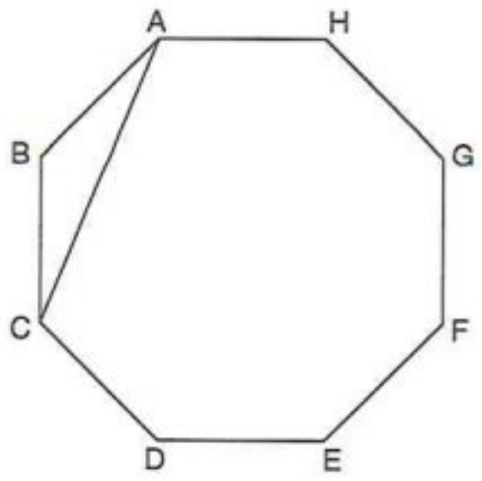
7.



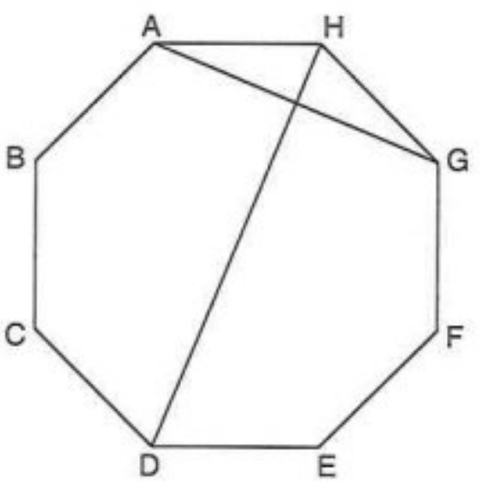
ABCDEFG düzgün sekizgen
(*regular octagon*)

$|AC| = 12$ br

⇒ **A (ABCDEFGH) = ?**

A) $36\sqrt{2}$ B) $64\sqrt{2}$ C) $72\sqrt{2}$ D) $96\sqrt{2}$ E) $144\sqrt{2}$

8.

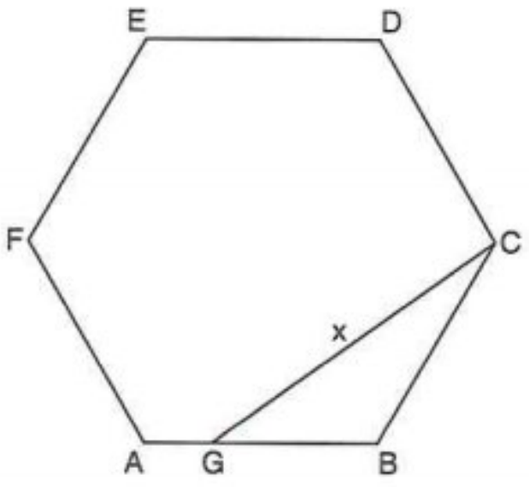


ABCDEFG düzgün sekizgen
(*regular octagon*)

⇒ $\frac{|DH|}{|AG|} = ?$

A) 2 B) $2\sqrt{3}$ C) $\sqrt{2}$ D) 1 E) $\frac{1}{\sqrt{2}}$

9.



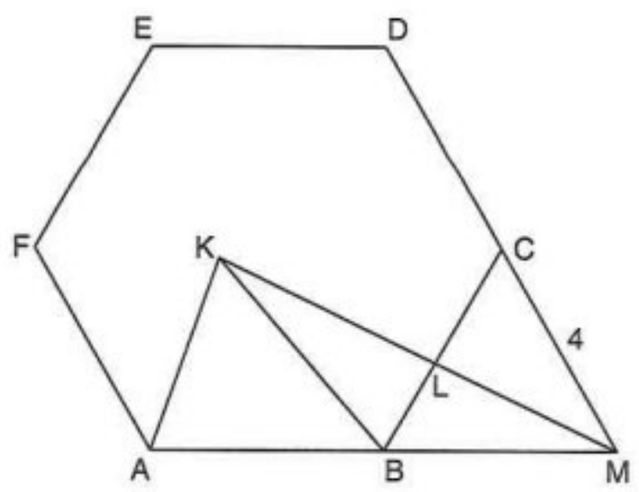
ABCDEF düzgün altıgen
(*regular hexagon*)

$2|AG| = |GB| = 4\sqrt{3}$

⇒ $|GC| = x = ?$

A) $2\sqrt{57}$ B) $3\sqrt{23}$ C) $4\sqrt{17}$ D) $5\sqrt{17}$ E) $3\sqrt{39}$

10.



ABCDEF düzgün
altıgen
(*regular hexagon*)

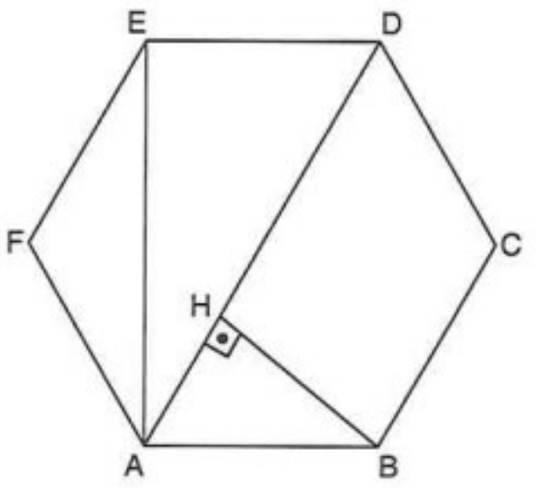
KAB eşkenar üçgen
(*equilateral triangle*)

$|CM| = 4$ br

⇒ $|KM| = ?$

A) 8 B) $4\sqrt{3}$ C) 6 D) $2\sqrt{2}$ E) 4

11.



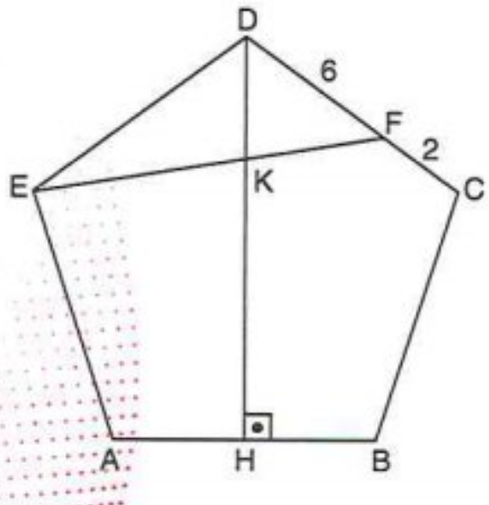
ABCDEF düzgün altıgen,
(*regular hexagon*)

$[BH] \perp [AD]$

⇒ $\frac{|AE|}{|BH|} = ?$

A) $\sqrt{3}$ B) $\frac{\sqrt{3}}{3}$ C) 1 D) 2 E) $2\sqrt{3}$

12.



ABCDE düzgün beşgen,
(*regular pentagon*)

$[DH] \perp [AB]$

$|DF| = 6$ br

$|FC| = 2$ br

⇒ $\frac{|EK|}{|KF|} = ?$

A) $\frac{1}{3}$ B) $\frac{3}{4}$ C) 1 D) $\frac{4}{3}$ E) 3

1. C	2. C	3. B	4. B	5. D	6. D
7. E	8. C	9. A	10. B	11. D	12. D

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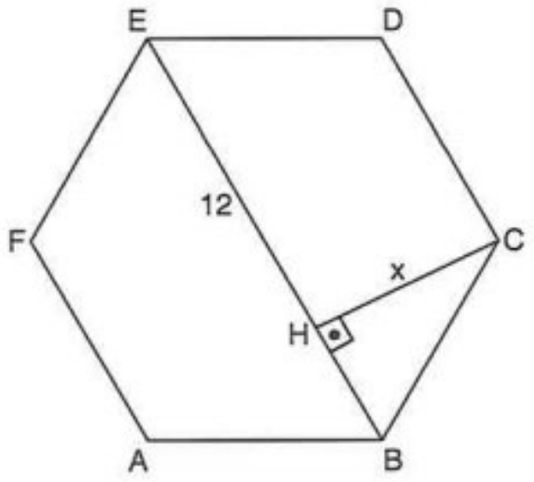
1.

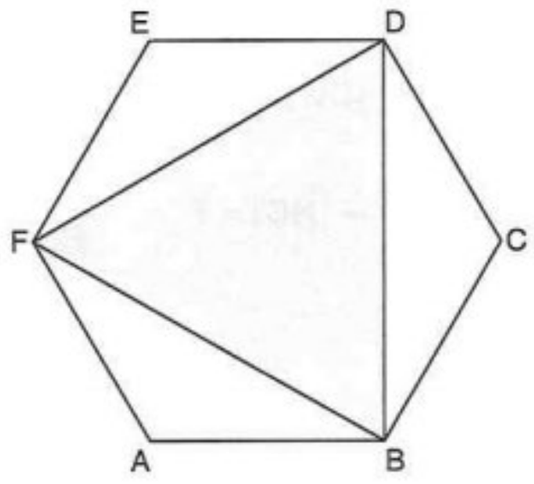


ABCDEF düzgün altıgen,
(*regular hexagon*)
$[CH] \perp [EB]$
$|EH| = 12$ br

⇒ $|CH| = x = ?$

A) 3 B) 4 C) $3\sqrt{3}$ D) $4\sqrt{3}$ E) 6

2.

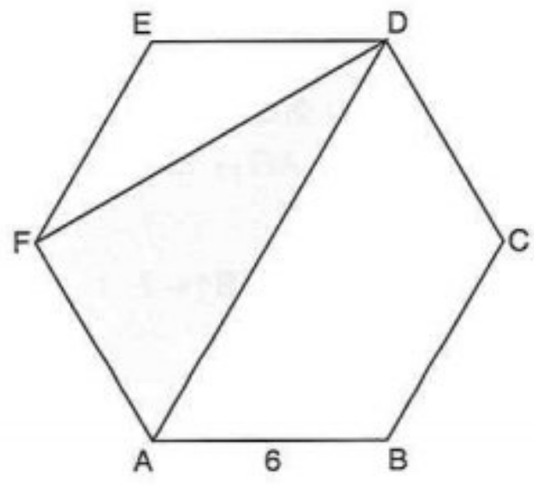


ABCDEF düzgün altıgen,
(*regular hexagon*)
$Ç(FDB) = 12\sqrt{3}$ br

⇒ **A (ABCDEF) = ?**

A) $16\sqrt{3}$ B) $18\sqrt{3}$ C) $24\sqrt{3}$ D) $36\sqrt{3}$ E) $48\sqrt{3}$

3.

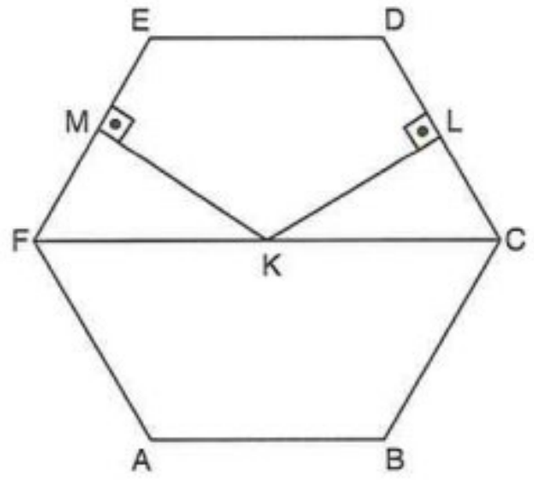


ABCDEF düzgün altıgen,
(*regular hexagon*)
$|AB| = 6$ br

⇒ **A (FDA) = ?**

A) $16\sqrt{3}$ B) $18\sqrt{3}$ C) $24\sqrt{3}$ D) $36\sqrt{3}$ E) $48\sqrt{3}$

4.

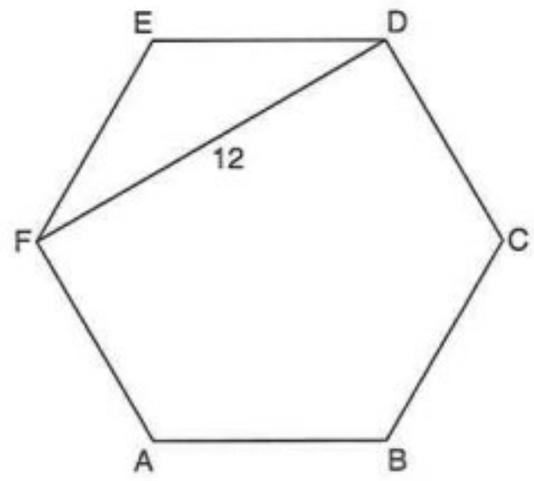


ABCDEF düzgün altıgen,
(*regular hexagon*)
$[KL] \perp [DC]$
$[KM] \perp [EF]$
$|KL| = \sqrt{3}$ br
$|KM| = 4\sqrt{3}$ br

⇒ **A (ABCDEF) = ?**

A) $\frac{25\sqrt{3}}{4}$ B) $16\sqrt{3}$ C) $\frac{9\sqrt{3}}{4}$ D) $\frac{5\sqrt{3}}{4}$ E) $\frac{75\sqrt{3}}{2}$

5.

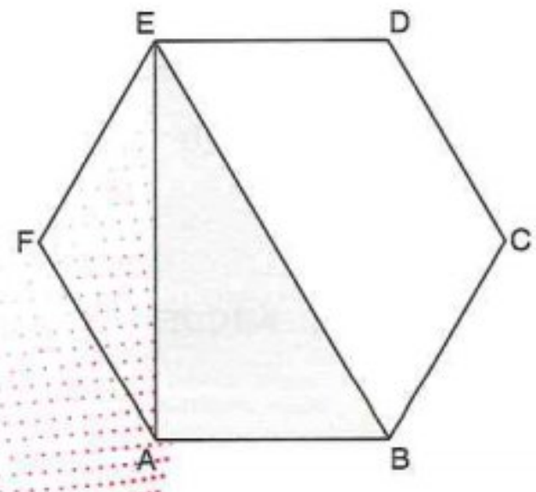


ABCDEF düzgün altıgen
(*regular hexagon*)
$|FD| = 12$ br

⇒ **A (ABCDEF) = ?**

A) $18\sqrt{3}$ B) $24\sqrt{3}$ C) $36\sqrt{3}$ D) $48\sqrt{3}$ E) $72\sqrt{3}$

6.



ABCDEF düzgün altıgen,
(*regular hexagon*)
$A(EAB) = 18\sqrt{3}$

⇒ **Ç (ABCDEF) = ?**

A) 12 B) 18 C) 24 D) 36 E) 48

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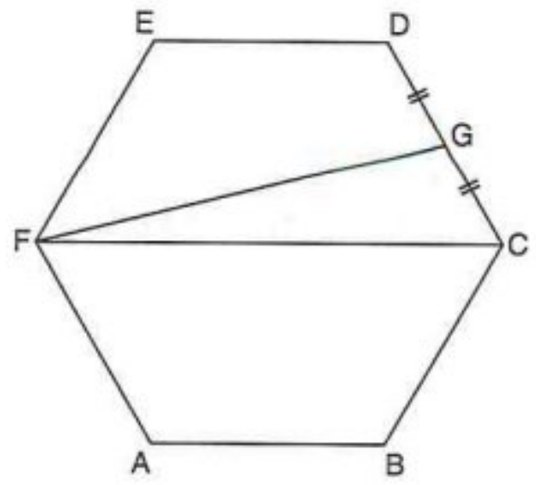
7.



ABCDEF düzgün altıgen (*regular hexagon*)

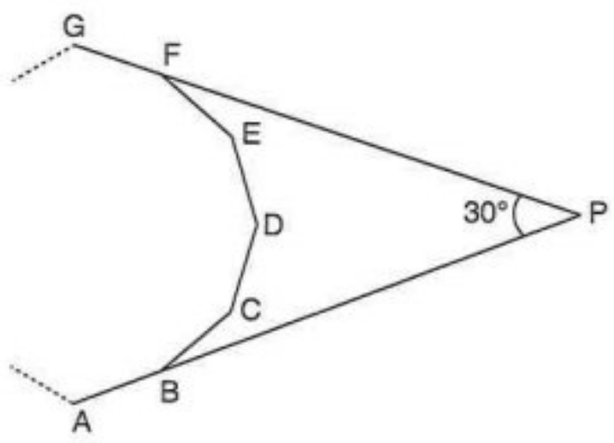
$|DG| = |GC|$

$|AB| = 8$ br

⇒ **A (GFC) = ?**

A) $4\sqrt{3}$ B) 8 C) $8\sqrt{3}$ D) 16 E) $16\sqrt{3}$

8.



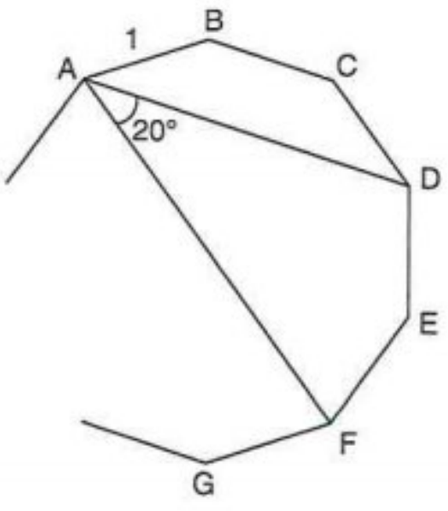
...ABCDEF... düzgün çokgen (*regular polygon*)

$m(\widehat{GPA}) = 30°$

⇒ **kenar sayısı = ?** (*edge*)

A) 8 B) 9 C) 10 D) 12 E) 15

9.



...ABCDEFG... düzgün çokgen (*regular polygon*)

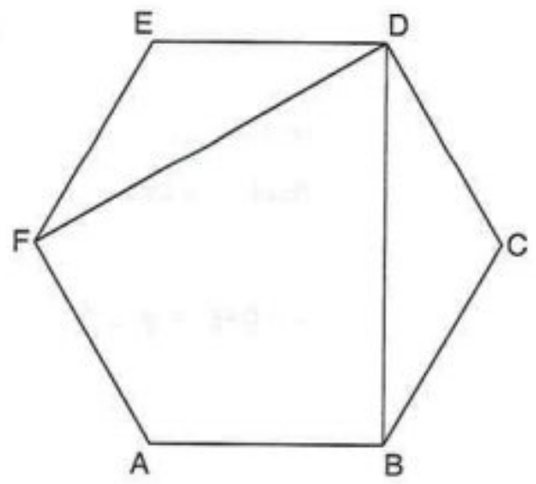
$m(\widehat{FAD}) = 20°$

$|AB| = 1$br

⇒ **Ç (...ABCDEFG...) = ?**

A) 10 B) 12 C) 16 D) 18 E) 20

10.



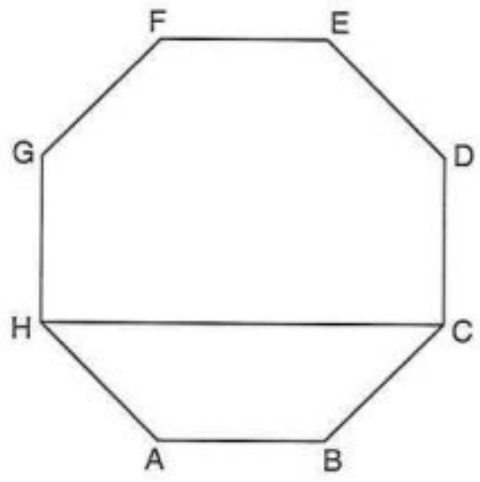
ABCDEF düzgün altıgen (*regular hexagon*)

$A(FABD) = 32\sqrt{3}$ br²

⇒ **|AB| = ?**

A) 4 B) $4\sqrt{2}$ C) $4\sqrt{3}$ D) 8 E) $8\sqrt{2}$

11.



ABCDEFGH düzgün sekizgen, (*regular octagon*)

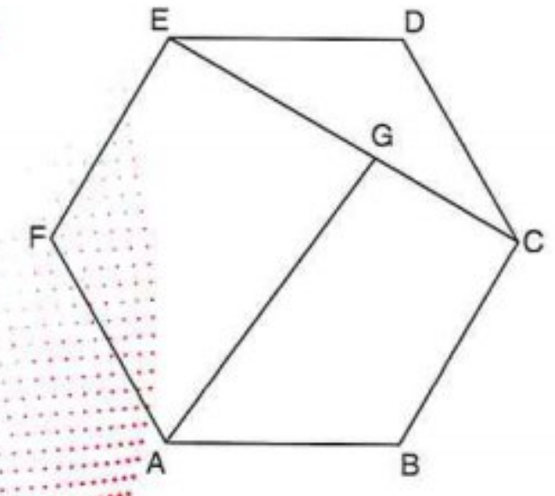
$|DC| = 3$ br

⇒ **|HC| = ?**

A) $3+\sqrt{2}$ B) $3+6\sqrt{2}$ C) $3+3\sqrt{2}$

D) $3+\frac{3\sqrt{2}}{2}$ E) $6+3\sqrt{2}$

12.



ABCDEF düzgün altıgen, (*regular hexagon*)

$2|GC| = |EG|$

$|AG| = 2\sqrt{7}$ br

⇒ **|AB| = ?**

A) $2\sqrt{3}$ B) $3\sqrt{3}$ C) $4\sqrt{3}$ D) $6\sqrt{3}$ E) $7\sqrt{3}$

1. D	2. C	3. B	4. E	5. E	6. D
7. E	8. D	9. D	10. B	11. C	12. A

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DÖRTGENLER
QUADRILATERALS

KONU KAVRAMA TESTİ
Thread Grip Test

ZİHİN HARİTASI
Mind Map

4
TEST
Tests

72
SORU
Questions

ANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS

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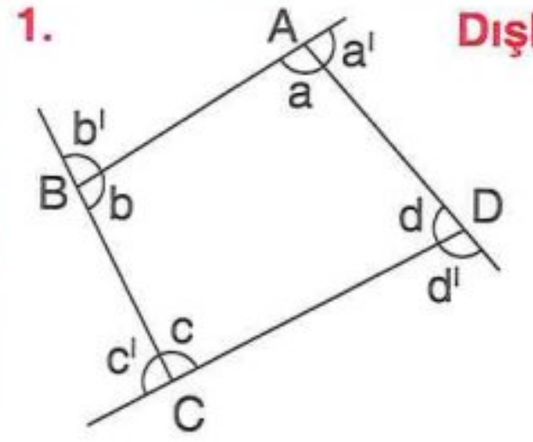
DÖRTGENLER
QUADRILATERALS

CANER eğitim kurumları

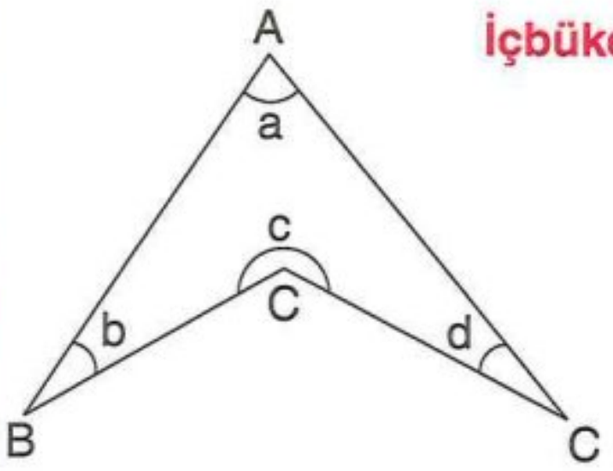
1.



Dışbükey

$a + b + c + d = 360°$

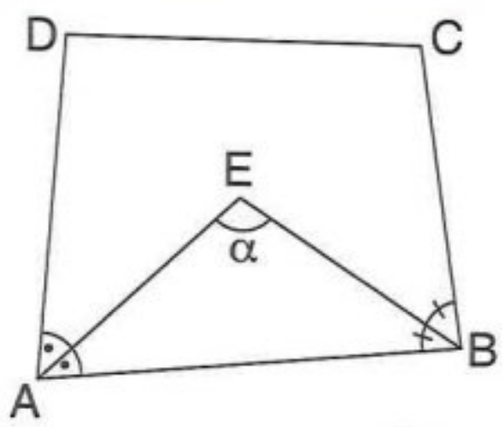
$a' + b' + c' + d' = 360°$



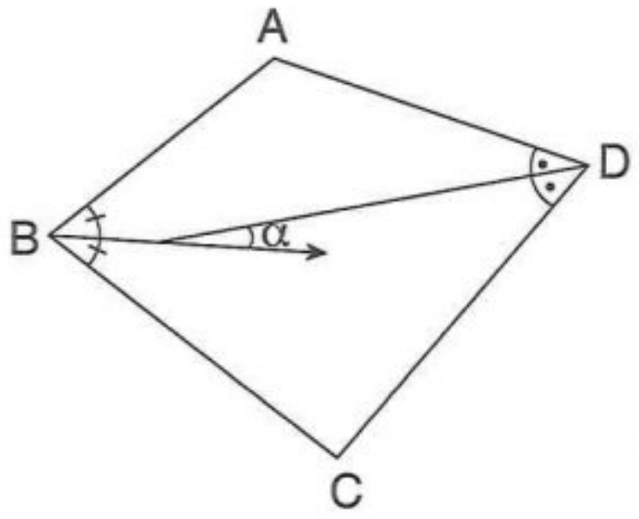
İçbükey

$a + b + c + d = 360°$

2.

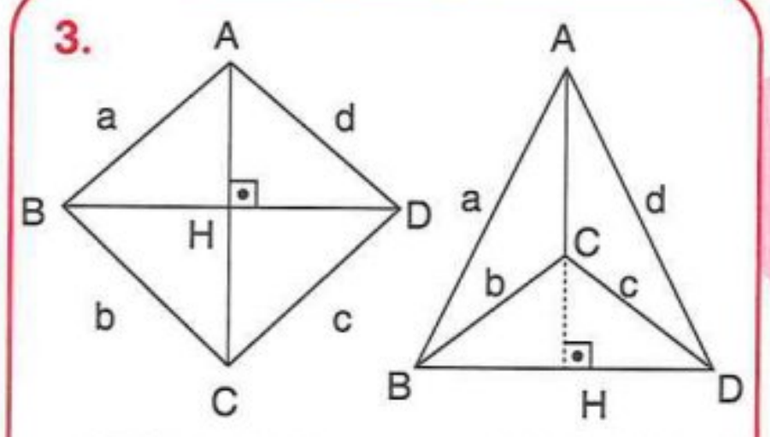


$$\alpha = \frac{m(\widehat{D}) + m(\widehat{C})}{2}$$



$$\alpha = \frac{|m(\widehat{A}) - m(\widehat{C})|}{2}$$

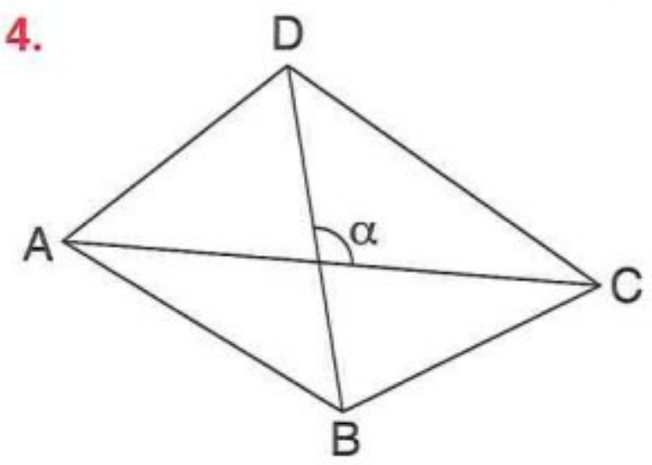
3.



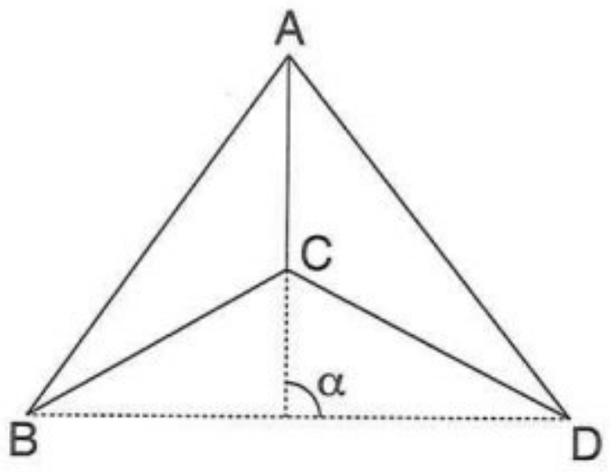
$[AC] \perp [BD]$ $\qquad$ $[AH] \perp [BD]$

$a^2 + c^2 = b^2 + d^2$

4.

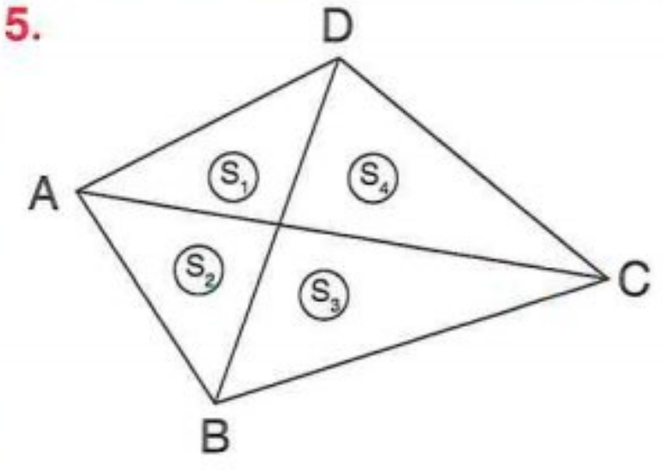


$$A(ABCD) = \frac{1}{2} |AC| \cdot |BD| \cdot \sin\alpha$$



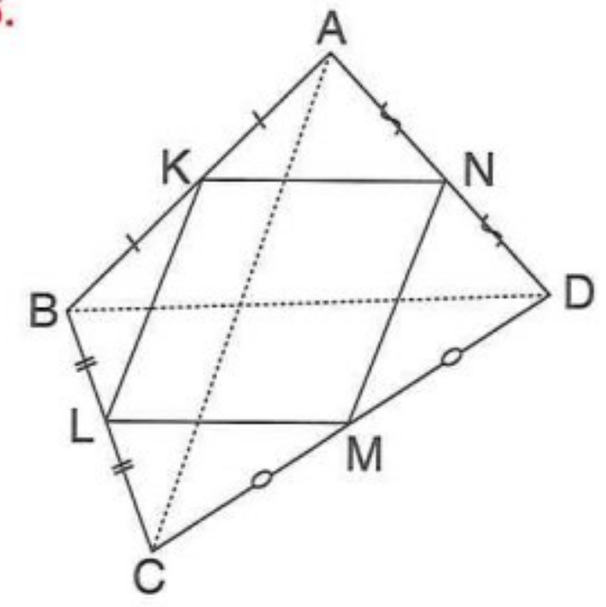
$$A(ABCD) = \frac{1}{2} |AC| \cdot |BD| \cdot \sin\alpha$$

5.



$S_1 \cdot S_3 = S_2 \cdot S_4$

6.



KLMN paralelkenar

$$|KN| = |LM| = \frac{|BD|}{2}$$

$$|KL| = |MN| = \frac{|AC|}{2}$$

Çevre (KLMN) = $|AC| + |BD|$

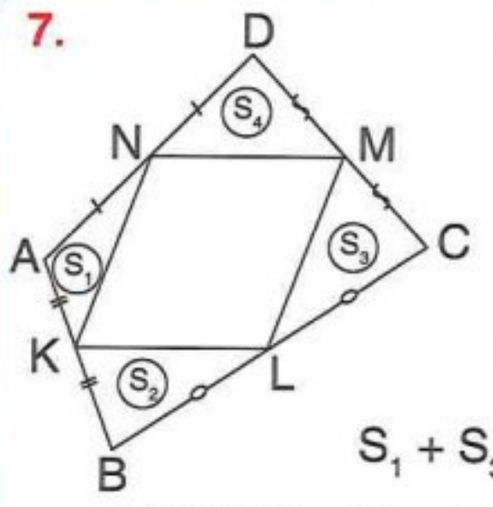
$A(ABCD) = 2 \cdot A(KLMN)$

$[AC] \perp [BD] \Rightarrow$ KLMN dikdörtgen

$|AC| = |BD| \Rightarrow$ KLMN eşkenar dörtgen

$[AC] \perp [BD]$ ve $|AC| = |BD| \Rightarrow$ KLMN kare

7.



$S_1 + S_3 = S_2 + S_4$

$A(KLMN) = S_1 + S_2 + S_3 + S_4$

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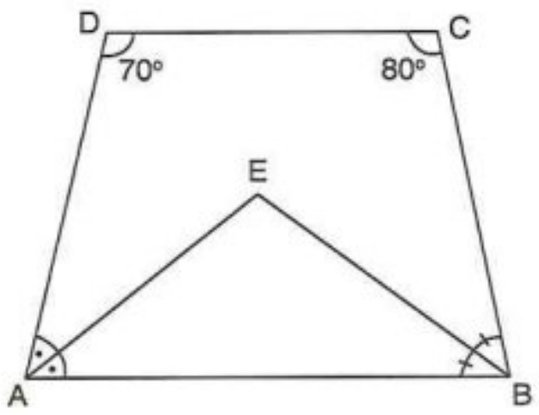
1.



[AE], [BE] açıortay *(bisector)*

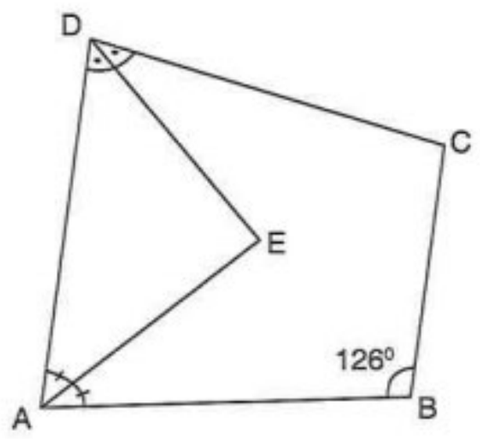
$m(\widehat{D}) = 70°$

$m(\widehat{C}) = 80°$

$\Rightarrow m(\widehat{E}) = ?$

A) 70° B) 75° C) 80° D) 85° E) 90°

2.



[AE], [DE] açıortay *(bisector)*

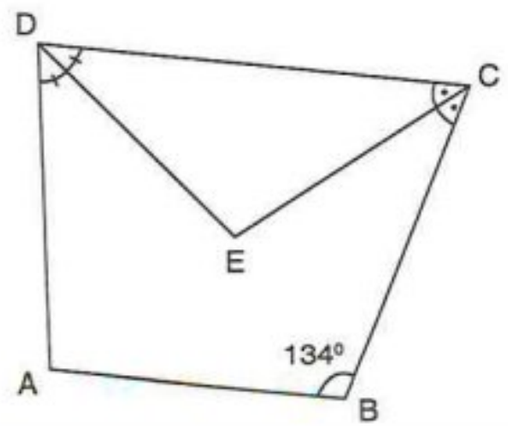
$m(\widehat{B}) = 126°$

$m(\widehat{E}) = 102°$

$\Rightarrow m(\widehat{C}) = ?$

A) 74° B) 76° C) 78° D) 80° E) 82°

3.



$m(A\widehat{D}E) = m(E\widehat{D}C)$

$m(D\widehat{C}E) = m(E\widehat{C}B)$

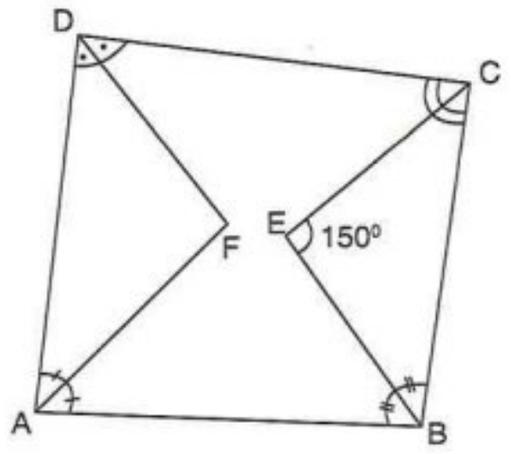
$m(\widehat{E}) = 107°$

$m(\widehat{B}) = 134°$

$\Rightarrow m(\widehat{A}) = ?$

A) 80° B) 82° C) 84° D) 86° E) 88°

4.



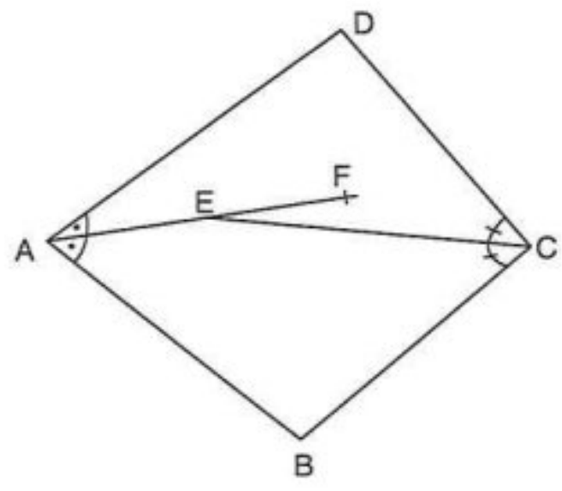
[AF], [BE], [CE], [DF] açıortay *(bisector)*

$m(C\widehat{E}B) = 150°$

$\Rightarrow m(D\widehat{F}A) = ?$

A) 30° B) 45° C) 60° D) 75° E) 90°

5.



$m(D\widehat{A}F) = m(F\widehat{A}B)$

$m(D\widehat{C}E) = m(E\widehat{C}B)$

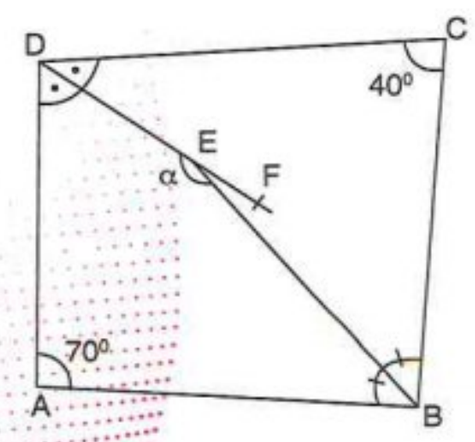
$m(\widehat{B}) = 80°$

$m(\widehat{D}) = 100°$

$\Rightarrow m(F\widehat{E}C) = ?$

A) 10° B) 15° C) 20° D) 25° E) 30°

6.



[DF], [BE] açıortay *(bisector)*

$m(\widehat{A}) = 70°$

$m(\widehat{C}) = 40°$

$\Rightarrow m(D\widehat{E}B) = \alpha = ?$

A) 110° B) 135° C) 140° D) 150° E) 165°

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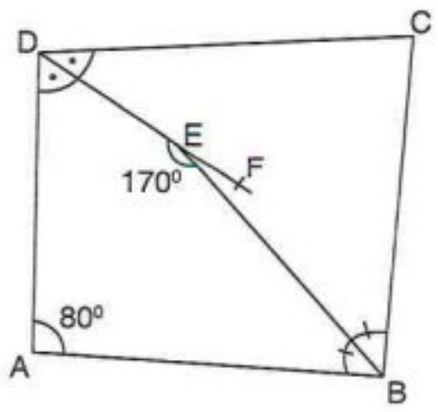
7.



[DF], [BE] açıortay *(bisector)*

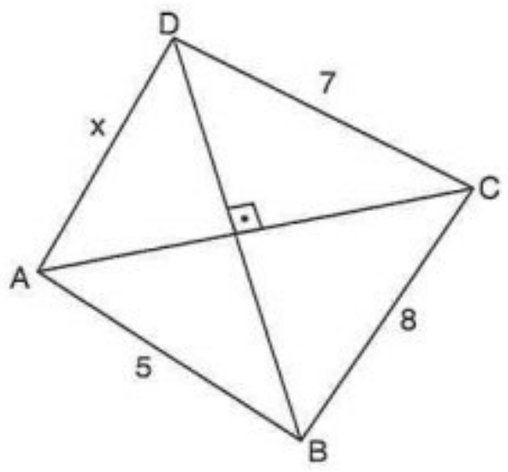
$m(\widehat{A}) = 80°$

$m(D\widehat{E}B) = 170°$

$\Rightarrow m(\widehat{C}) = ?$

A) 40° B) 50° C) 60° D) 70° E) 80°

8.



$[AC] \perp [BD]$

$|BC| = 8$ br

$|DC| = 7$ br

$|AB| = 5$ br

$\Rightarrow x = ?$

A) $2\sqrt{2}$ B) 3 C) $\sqrt{10}$ D) $\sqrt{11}$ E) $2\sqrt{3}$

9.

$[AC] \perp [BD]$

$|AE| = |EB|$

$|AD| = 6$ br

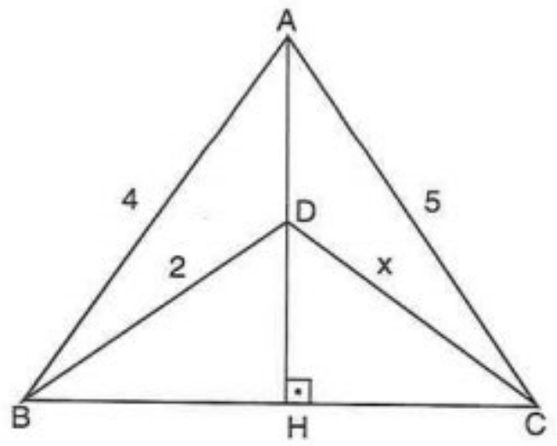
$|DC| = 7$ br

$|BC| = 11$ br

$\Rightarrow |KE| = ?$

A) $3\sqrt{3}$ B) $4\sqrt{3}$ C) $5\sqrt{3}$ D) $6\sqrt{3}$ E) $8\sqrt{3}$

10.



$[AH] \perp [BC]$

$|AB| = 4$ br

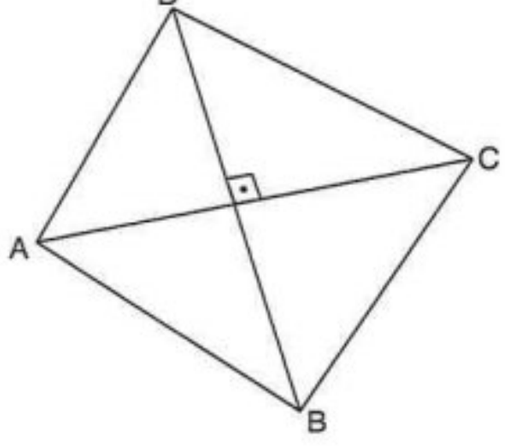
$|AC| = 5$ br

$|BD| = 2$ br

$\Rightarrow |DC| = x = ?$

A) $\sqrt{6}$ B) $\sqrt{7}$ C) $\sqrt{13}$ D) $\sqrt{15}$ E) $2\sqrt{5}$

11.



$[AC] \perp [BD]$

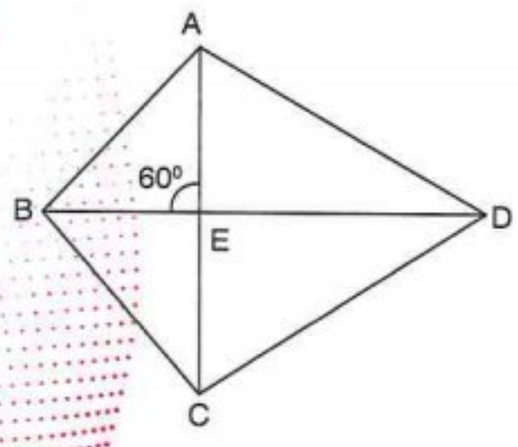
$|AC| = 10$ br

$|BD| = 8$ br

$\Rightarrow A(ABCD) = ?$

A) 18 B) 20 C) 25 D) 40 E) 48

12.



$m(A\widehat{E}B) = 60°$

$|AC| = 4\sqrt{3}$ br

$|BD| = 6$ br

$\Rightarrow A(ABCD) = ?$

A) $12\sqrt{3}$ B) 24 C) 18 D) $18\sqrt{3}$ E) 36

1. B	2. C	3. A	4. A	5. A	6. E
7. C	8. C	9. A	10. C	11. D	12. C

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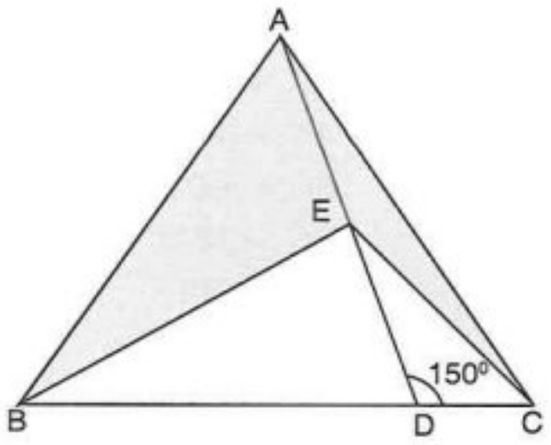
13.

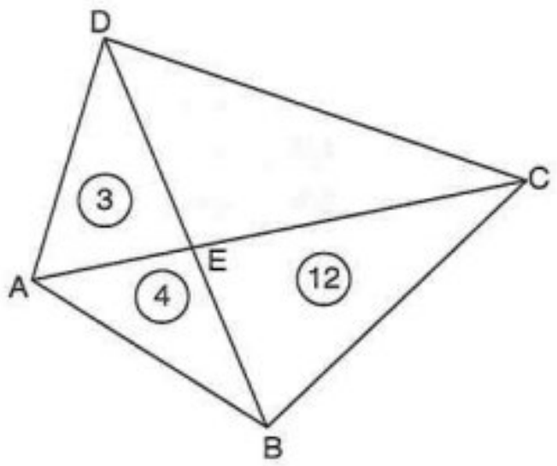


$m(\widehat{ADC}) = 150°$
$|AE| = 8\,br$
$|BC| = 9\sqrt{3}\,br$

⇒ **A(ABEC) = ?**

A) 18 B) $18\sqrt{3}$ C) 27 D) $27\sqrt{3}$ E) 81

14.

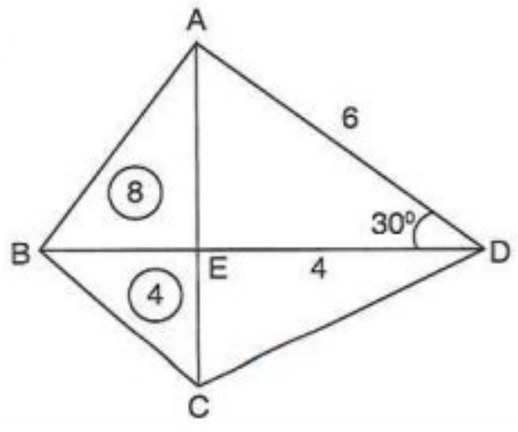


$A(ADE) = 3\,br^2$
$A(AEB) = 4\,br^2$
$A(EBC) = 12\,br^2$

⇒ **A(DEC) = ?**

A) 5 B) 6 C) 7 D) 8 E) 9

15.

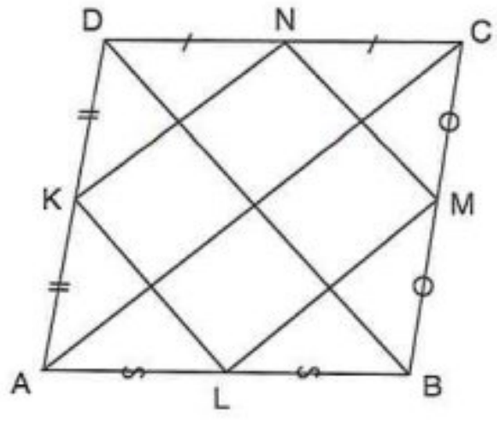


$m(\widehat{ADB}) = 30°$
$|AD| = 6\,br$
$|ED| = 4\,br$
$A(AEB) = 8\,br^2$
$A(BEC) = 4\,br^2$

⇒ **A(CED) = ?**

A) 2 B) 3 C) 4 D) 6 E) 12

16.

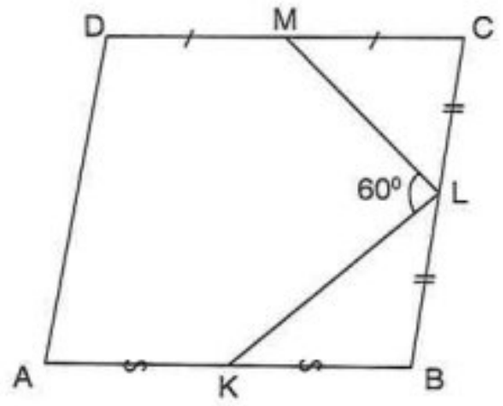


$|AL| = |LB|$
$|BM| = |MC|$
$|CN| = |ND|$
$|DK| = |KA|$
$|AC| = 16\,br$
$|BD| = 8\,br$

⇒ **Ç(KLMN) = ?**

A) 24 B) 26 C) 28 D) 32 E) 36

17.

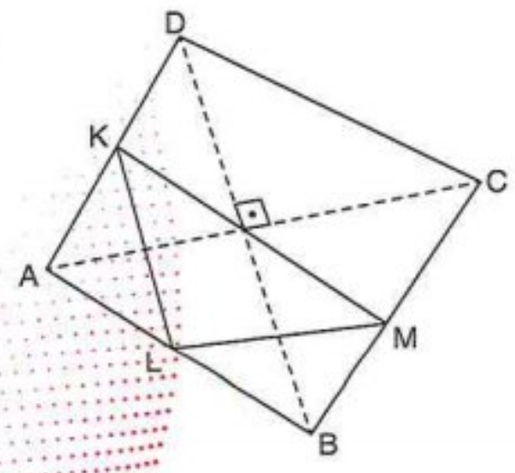


$|DM| = |MC|$
$|CL| = |LB|$
$|BK| = |KA|$
$m(\widehat{MLK}) = 60°$
$|ML| = 3\sqrt{3}\,br$
$|KL| = 4\,br$

⇒ **A(ABCD) = ?**

A) $18\sqrt{3}$ B) 24 C) $24\sqrt{3}$ D) 36 E) $36\sqrt{3}$

18.



$[AC] \perp [BD]$
$|DK| = |KA|$
$|AL| = |LB|$
$|BM| = |MC|$
$|AC| = 8\,br$
$|BD| = 9\,br$

⇒ **A(KLM) = ?**

A) 8 B) 9 C) 12 D) 16 E) 18

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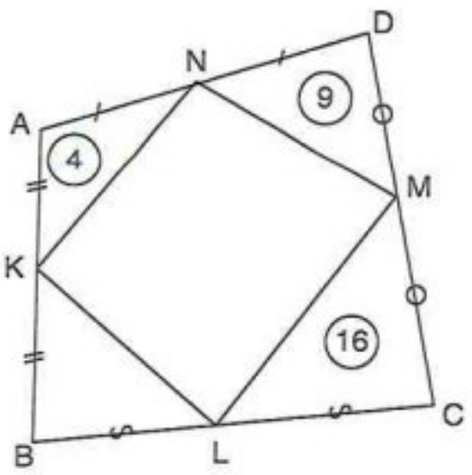
19.

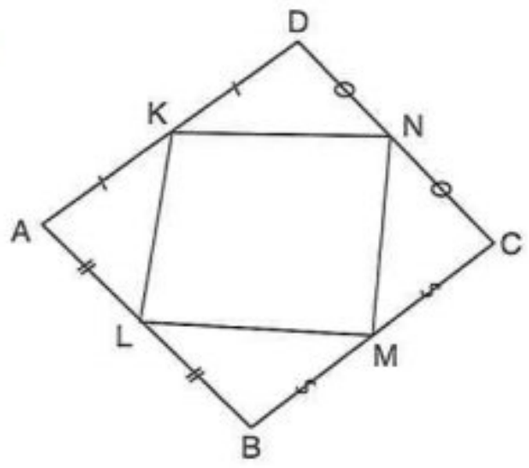


$|AN| = |ND|$
$|DM| = |MC|$
$|CL| = |LB|$
$|BK| = |KA|$
$A(AKN) = 4\,br^2$
$A(DNM) = 9\,br^2$
$A(MLC) = 16\,br^2$

⇒ A(KBL) = ?

A) 10 B) 11 C) 12 D) 13 E) 14

20.



$|AK| = |KD|$
$|DN| = |NC|$
$|CM| = |MB|$
$|BL| = |LA|$
$A(ALK) = 13\,br^2$
$A(KLMN) = 36\,br^2$

⇒ A(MNC) = ?

A) 5 B) 6 C) 7 D) 8 E) 9

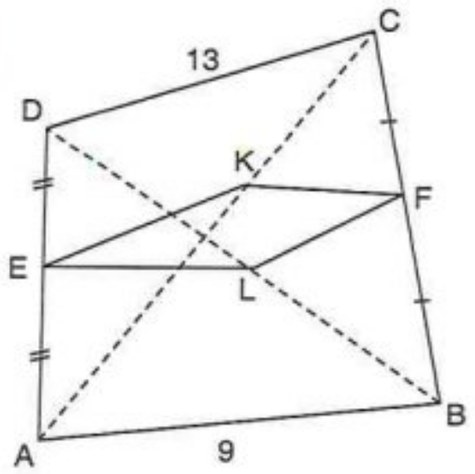
21.

$|AK| = |KB|$
$|BL| = |LC|$
$|CM| = |MD|$
$|DN| = |NA|$
$A(BLK) = 7\,br^2$
$A(AKN) = 11\,br^2$
$A(NMD) = 14\,br^2$

⇒ A(KLCMN) = ?

A) 56 B) 52 C) 45 D) 36 E) 18

22.

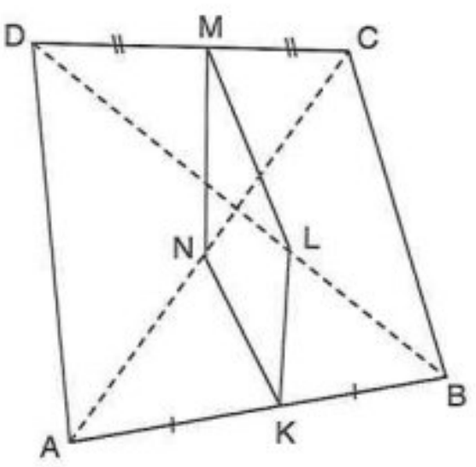


$|AE| = |ED|$
$|BF| = |FC|$
$|AK| = |KC|$
$|BL| = |LD|$
$|DC| = 13\,br$
$|AB| = 9\,br$

⇒ Ç(ELFK) = ?

A) 16 B) 18 C) 19 D) 20 E) 22

23.



$|DM| = |MC|$
$|AK| = |KB|$
$|CN| = |NA|$
$|DL| = |LB|$
$|MN| = 5\,br$
$|NK| = 8\,br$

⇒ |AD| + |BC| = ?

A) 22 B) 24 C) 26 D) 28 E) 30

24.

$[AC] \perp [BD]$
$|AF| = |FD|$
$|BE| = |EC|$
$|AC| = 8\,br$
$|BD| = 12\,br$

⇒ |EF| = ?

A) $2\sqrt{13}$ B) $2\sqrt{15}$ C) $4\sqrt{2}$ D) 9 E) 10

13. B	14. E	15. B	16. A	17. D	18. B
19. B	20. A	21. B	22. E	23. C	24. A

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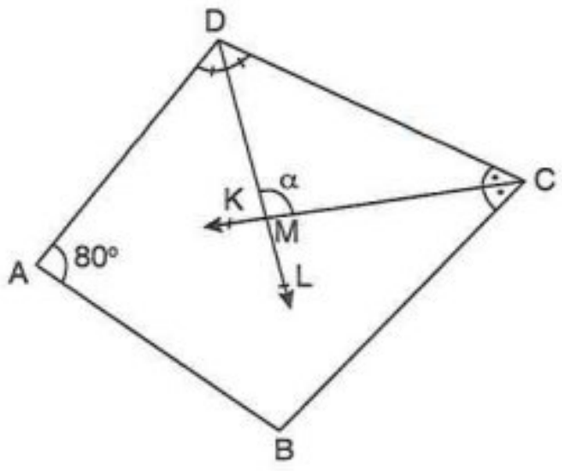
الممسوحة ضوئيا بـ CamScanner

1.

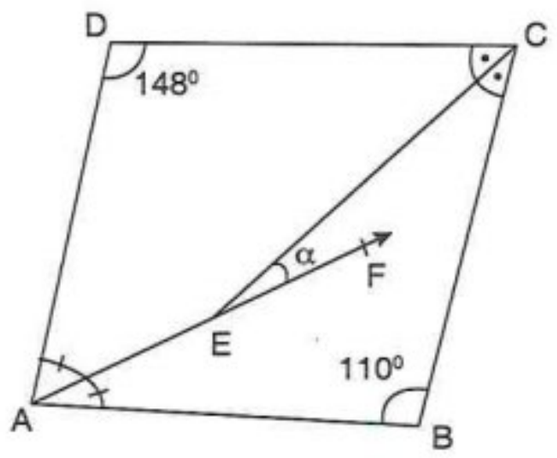


$m(\widehat{ADL}) = m(\widehat{LDC})$
$m(\widehat{DCK}) = m(\widehat{KCB})$
$m(\widehat{A}) = 80°$
$m(\widehat{B}) = 72°$

$\Rightarrow m(\widehat{DMC}) = \alpha = ?$

A) 76° B) 78° C) 80° D) 82° E) 84°

2.

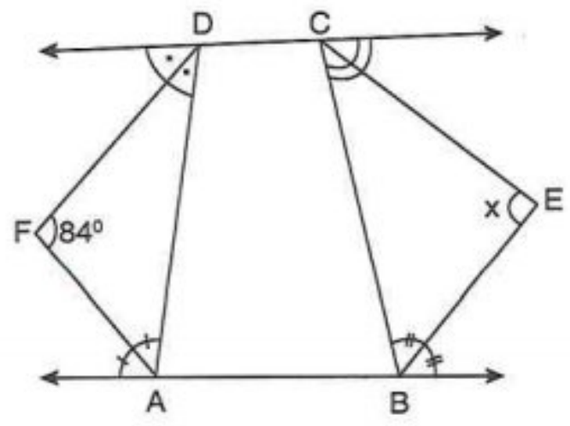


$m(\widehat{DAF}) = m(\widehat{FAB})$
$m(\widehat{DCE}) = m(\widehat{ECB})$
$m(\widehat{B}) = 110°$
$m(\widehat{D}) = 148°$

$\Rightarrow m(\widehat{CEF}) = \alpha = ?$

A) 15° B) 16° C) 17° D) 18° E) 19°

3.



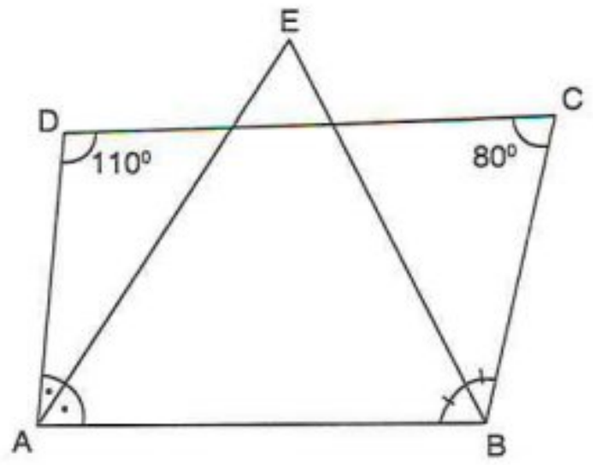
[DF], [AF], [CE], [BE] açıortay (bisector)

$m(\widehat{DFA}) = 84°$

$\Rightarrow m(\widehat{CEB}) = x = ?$

A) 80° B) 84° C) 88° D) 92° E) 96°

4.

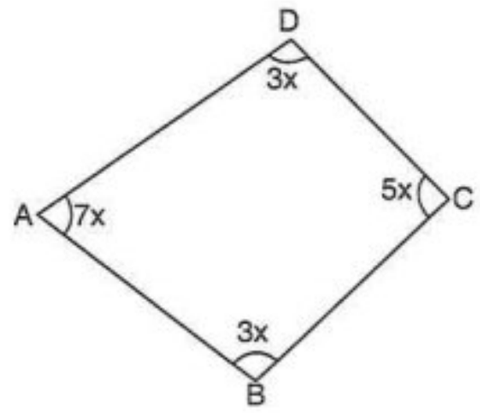


$m(\widehat{DAE}) = m(\widehat{EAB})$
$m(\widehat{ABE}) = m(\widehat{EBC})$
$m(\widehat{ADC}) = 110°$
$m(\widehat{DCB}) = 80°$

$\Rightarrow m(\widehat{AEB}) = ?$

A) 80° B) 90° C) 95° D) 100° E) 105°

5.

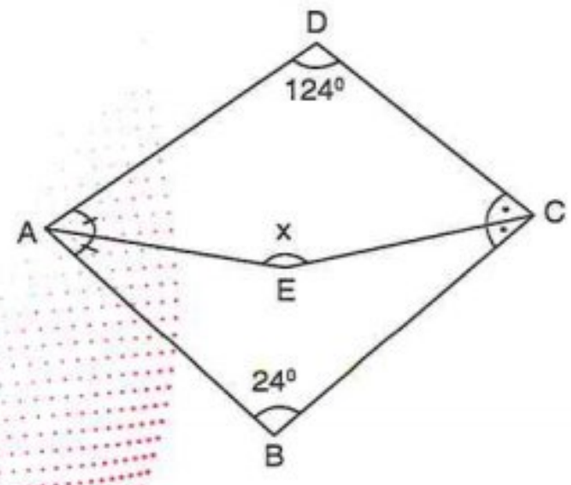


$m(\widehat{ABC}) = m(\widehat{ADC}) = 3x$
$m(\widehat{DCB}) = 5x$
$m(\widehat{DAB}) = 7x$

$\Rightarrow x = ?$

A) 10° B) 15° C) 20° D) 25° E) 30°

6.



$m(\widehat{DAE}) = m(\widehat{EAB})$
$m(\widehat{DCE}) = m(\widehat{ECB})$
$m(\widehat{ADC}) = 124°$
$m(\widehat{ABC}) = 24°$

$\Rightarrow m(\widehat{AEC}) = x = ?$

A) 115° B) 120° C) 125° D) 130° E) 135°

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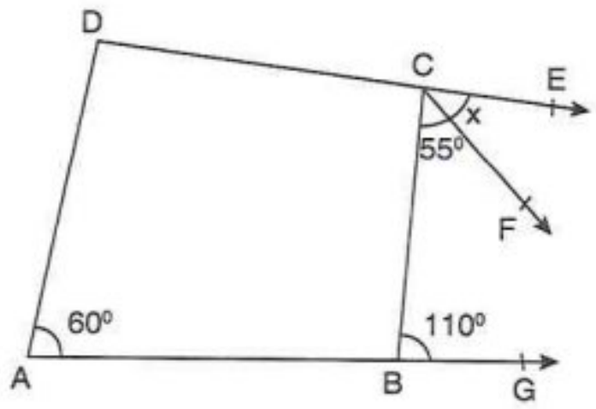
7.

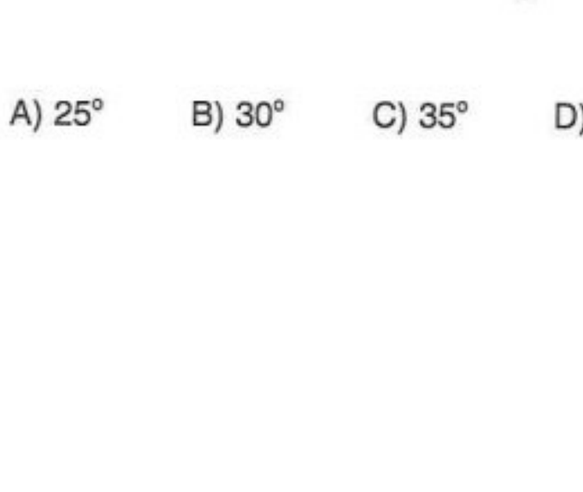


$m(\widehat{BCF}) = 55°$
$m(\widehat{DAG}) = 60°$
$m(\widehat{CBG}) = 110°$
$m(\widehat{ADE}) = 150°$

⇒ $m(\widehat{FCE}) = x = ?$

A) 25° B) 30° C) 35° D) 40° E) 45°

8.

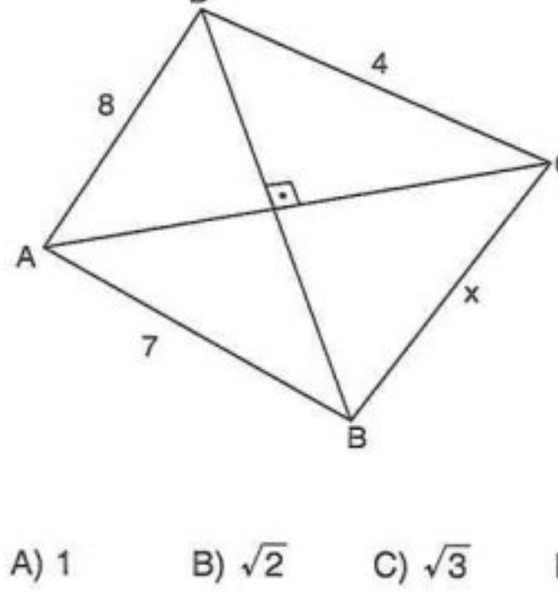


$[AC] \perp [BD]$
$|DC| = 4$ br
$|AB| = 7$ br
$|AD| = 8$ br

⇒ $|BC| = x = ?$

A) 1 B) $\sqrt{2}$ C) $\sqrt{3}$ D) 2 E) $\sqrt{5}$

9.

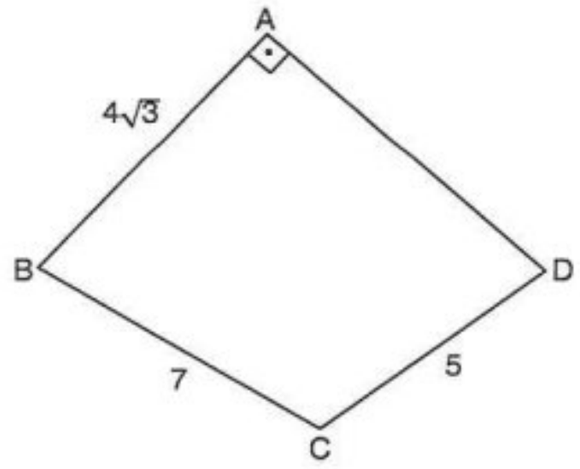


$[AH] \perp [BD]$
$|BC| = 2$ br
$|CD| = 3$ br
$|AD| = 7$ br

⇒ $|AB| = x = ?$

A) $2\sqrt{3}$ B) 6 C) $2\sqrt{11}$ D) $3\sqrt{10}$ E) $2\sqrt{5}$

10.

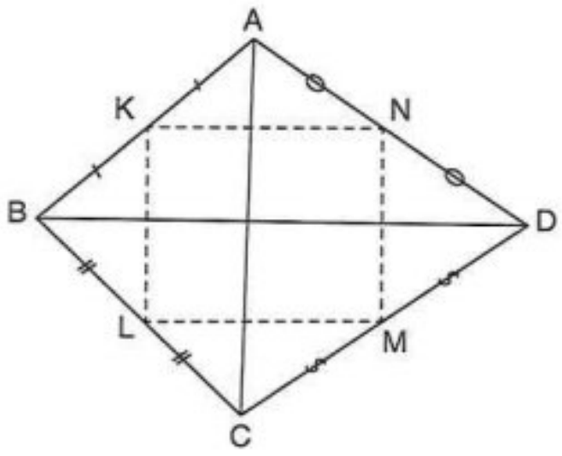


$[AB] \perp [AD]$
$|AB| = 4\sqrt{3}$ br
$|AD| = 4$ br
$|CD| = 5$ br
$|BC| = 7$ br

⇒ $A(ABCD) = ?$

A) $12\sqrt{3}$ B) $13\sqrt{3}$ C) $14\sqrt{3}$ D) $18\sqrt{3}$ E) $20\sqrt{3}$

11.

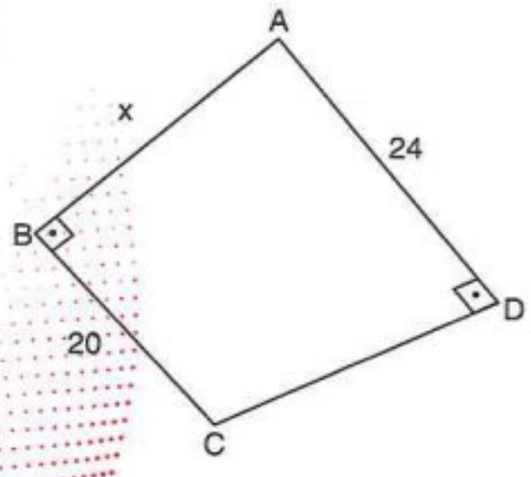


$|AK| = |KB|$
$|BL| = |LC|$
$|CM| = |MD|$
$|AN| = |ND|$
$|AC| + |BD| = 18$ br

⇒ $Ç(KLMN) = ?$

A) 10 B) 14 C) 16 D) 18 E) 20

12.



$[AB] \perp [BC]$
$[CD] \perp [AD]$
$|AD| = 24$ br
$|BC| = 20$ br
$|CD| = 7$ br

⇒ $|AB| = x = ?$

A) 7 B) 10 C) 12 D) 15 E) 18

1. A	2. E	3. E	4. C	5. C	6. D
7. E	8. A	9. C	10. D	11. D	12. D

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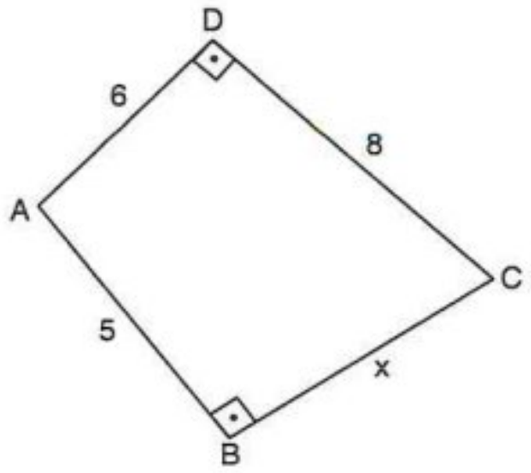
1.

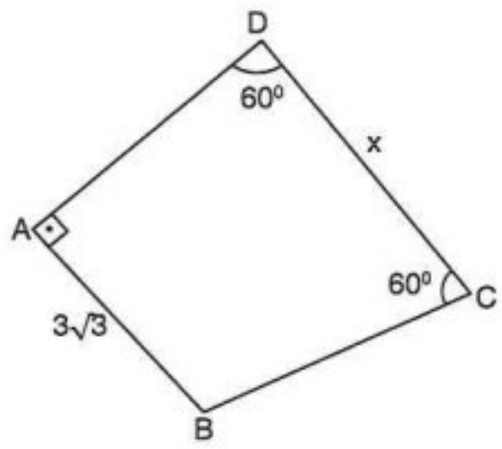


$[AB] \perp [BC]$
$[AD] \perp [DC]$
$|AB| = 5$ br
$|AD| = 6$ br
$|DC| = 8$ br

$\Rightarrow |BC| = x = ?$

A) 5 B) $5\sqrt{3}$ C) 7 D) $7\sqrt{3}$ E) 9

2.

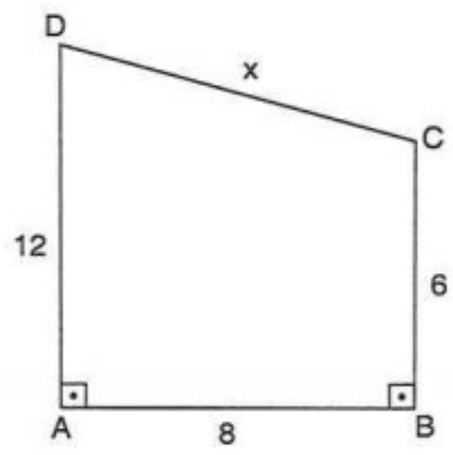


$[AB] \perp [AD]$
$m(A\widehat{D}C) = m(D\widehat{C}B) = 60°$
$|AB| = 3\sqrt{3}$ br
$|BC| = 6$ br

$\Rightarrow |DC| = x = ?$

A) 6 B) 8 C) 9 D) 12 E) 15

3.

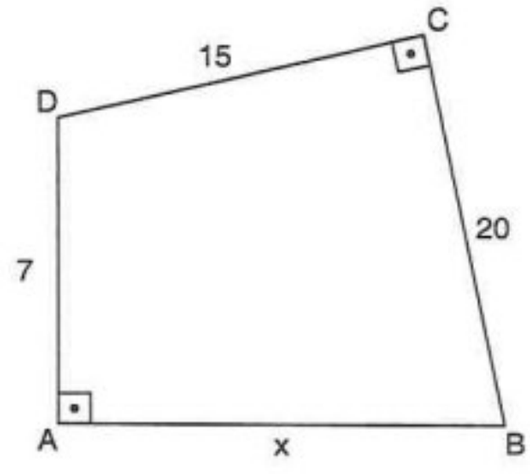


$[AB] \perp [AD]$
$[AB] \perp [BC]$
$|BC| = 6$ br
$|AB| = 8$ br
$|AD| = 12$ br

$\Rightarrow |DC| = x = ?$

A) 7 B) 8 C) 10 D) 12 E) 14

4.

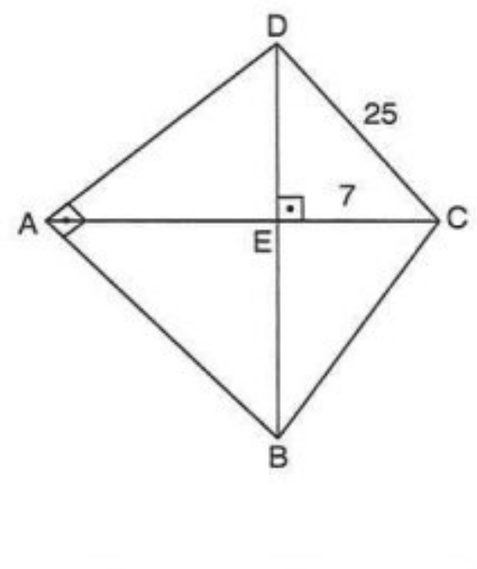


$[AD] \perp [AB]$
$[DC] \perp [CB]$
$|AD| = 7$ br
$|DC| = 15$ br
$|BC| = 20$ br

$\Rightarrow |AB| = x = ?$

A) 14 B) 16 C) 18 D) 24 E) 25

5.

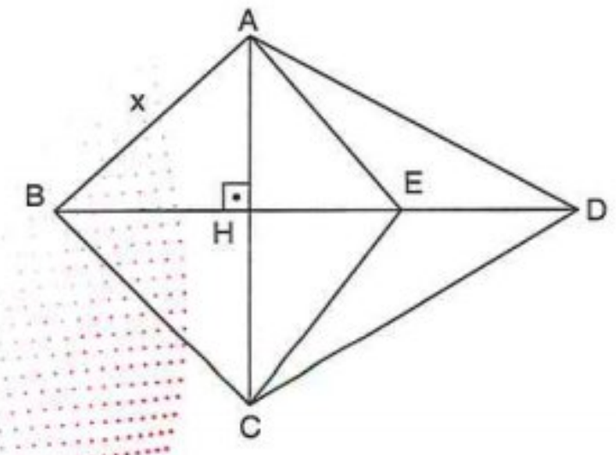


$[AD] \perp [AB]$
$[AC] \perp [BD]$
$|DC| = 25$ br
$|EC| = 7$ br
$|EB| = 3$ br

$\Rightarrow |AE| = ?$

A) $3\sqrt{2}$ B) $6\sqrt{2}$ C) $8\sqrt{2}$ D) $10\sqrt{2}$ E) $12\sqrt{2}$

6.



$[AC] \perp [BD]$
$|AH| = |HE|$
$2|BH| = |ED| = 6$ br
$|AD| = 3\sqrt{10}$

$\Rightarrow |AB| = x = ?$

A) $3\sqrt{2}$ B) 5 C) $7\sqrt{2}$ D) 9 E) $11\sqrt{2}$

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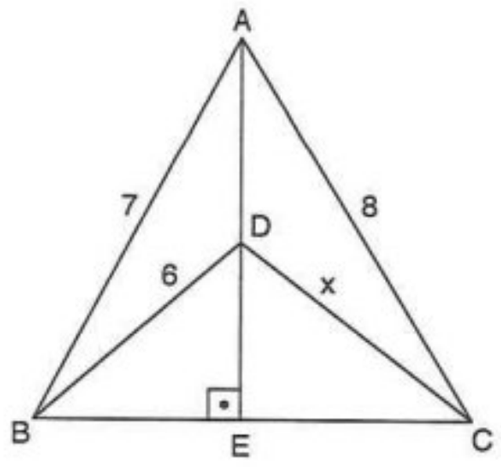
7.

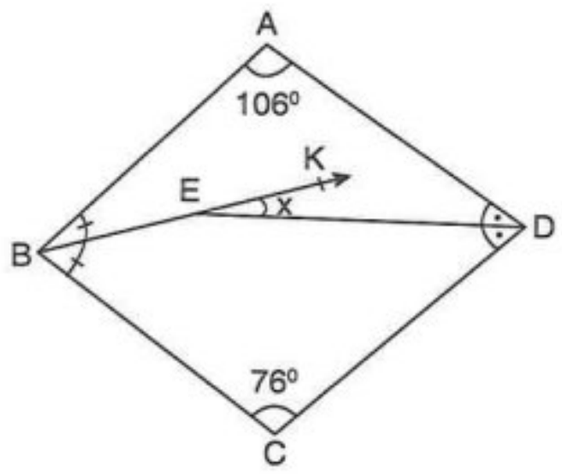


$[AE] \perp [BC]$
$|AC| = 8$ br
$|AB| = 7$ br
$|BD| = 6$ br

$\Rightarrow |DC| = x = ?$

A) 9 B) 8 C) $3\sqrt{5}$ D) $\sqrt{47}$ E) $\sqrt{51}$

8.

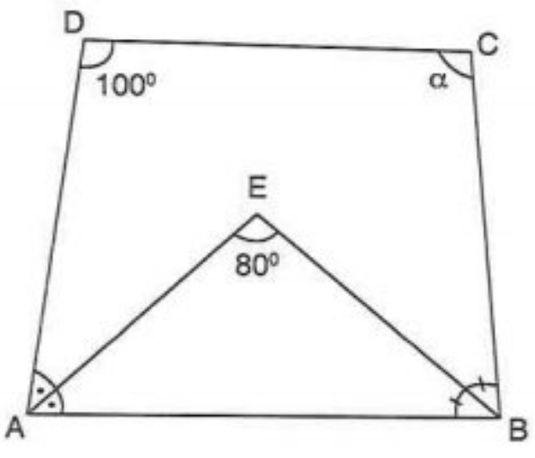


$m(\widehat{ABK}) = m(\widehat{KBC})$
$m(\widehat{ADE}) = m(\widehat{EDC})$
$m(\widehat{A}) = 106°$
$m(\widehat{C}) = 76°$

$\Rightarrow m(\widehat{KED}) = x = ?$

A) 15° B) 20° C) 25° D) 30° E) 34°

9.

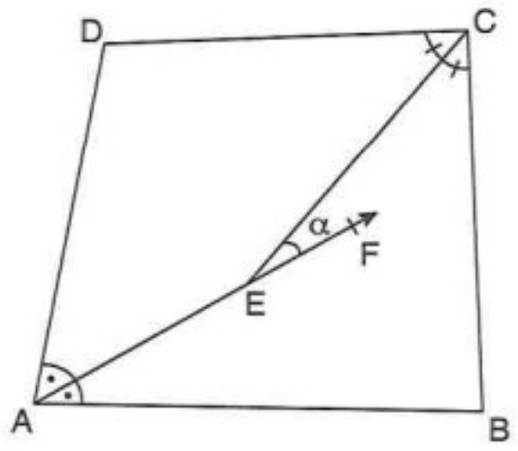


$m(\widehat{DAE}) = m(\widehat{EAB})$
$m(\widehat{CBE}) = m(\widehat{EBA})$
$m(\widehat{D}) = 100°$
$m(A\widehat{E}B) = 80°$

$\Rightarrow m(\widehat{C}) = \alpha = ?$

A) 60° B) 70° C) 80° D) 90° E) 100°

10.

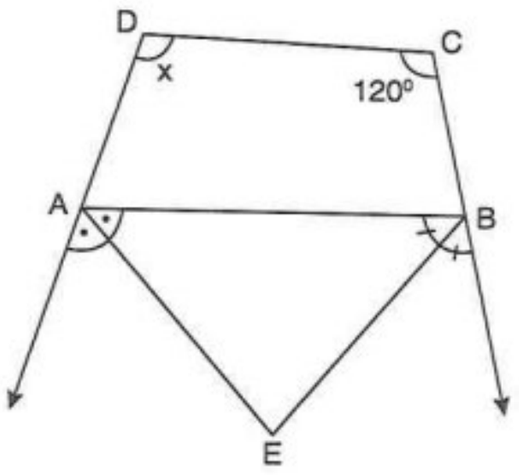


$m(\widehat{DAF}) = m(\widehat{FAB})$
$m(\widehat{DCE}) = m(\widehat{ECB})$
$m(\widehat{D}) = 120°$
$m(\widehat{B}) = 54°$

$\Rightarrow m(\widehat{CEF}) = \alpha = ?$

A) 22° B) 27° C) 30° D) 33° E) 27°

11.

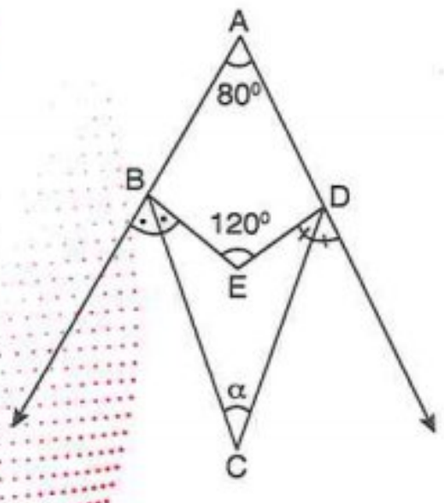


[AE], [BE] açıortay (*bisector*)
$m(\widehat{C}) = 120°$
$m(\widehat{E}) = 60°$

$\Rightarrow m(\widehat{D}) = x = ?$

A) 60° B) 70° C) 90° D) 110° E) 120°

12.



[BC], [DC]açıortay (*bisector*)
$m(\widehat{E}) = 120°$
$m(\widehat{A}) = 80°$

$\Rightarrow m(\widehat{C}) = \alpha = ?$

A) 20° B) 25° C) 30° D) 45° E) 50°

1. B	2. D	3. C	4. D	5. B	6. A
7. E	8. A	9. A	10. D	11. E	12. A

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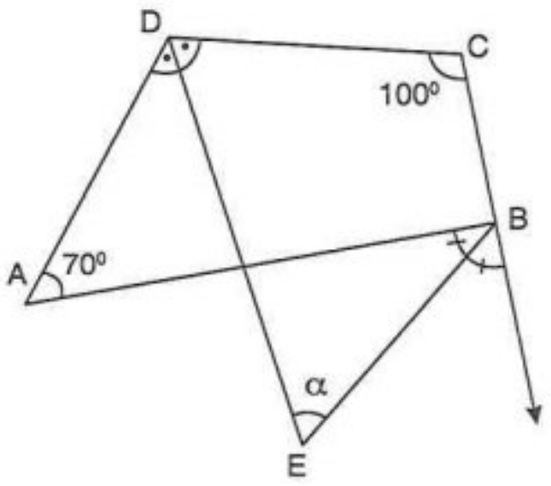
1.



[BE], [DE] açıortay (bisector)

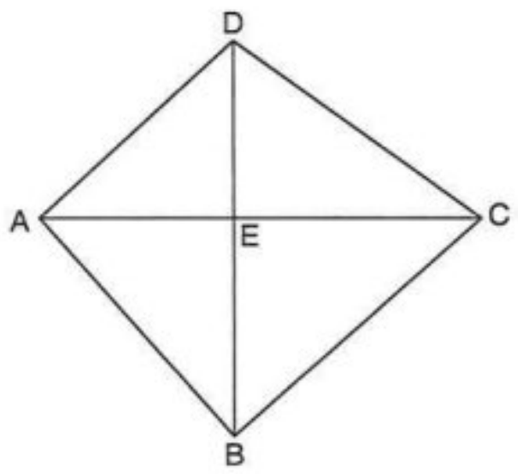
$m(\widehat{C}) = 100°$

$m(\widehat{A}) = 70°$

$\Rightarrow m(\widehat{E}) = \alpha = ?$

A) 80° B) 75° C) 70° D) 65° E) 60°

2.

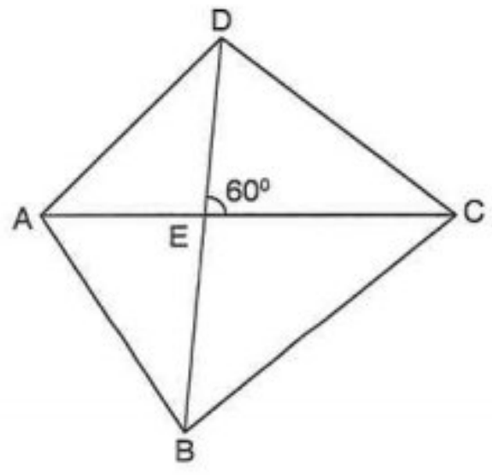


$|EC| = 3|AE|$

$\Rightarrow \dfrac{A(DBC)}{A(ABCD)} = ?$

A) $\frac{4}{5}$ B) $\frac{3}{4}$ C) $\frac{4}{7}$ D) $\frac{3}{7}$ E) $\frac{1}{5}$

3.



$m(\widehat{DEC}) = 60°$

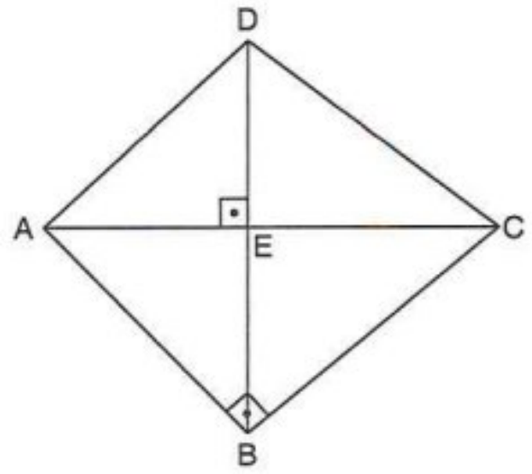
$|AC| = 18\,br$

$|BD| = 12\,br$

$\Rightarrow A(ABCD) = ?$

A) $36\sqrt{3}$ B) $48\sqrt{3}$ C) $54\sqrt{3}$ D) $56\sqrt{3}$ E) $108\sqrt{3}$

4.



$[AB] \perp [BC]$

$[AC] \perp [BD]$

$|AB| = 2\sqrt{5}\,br$

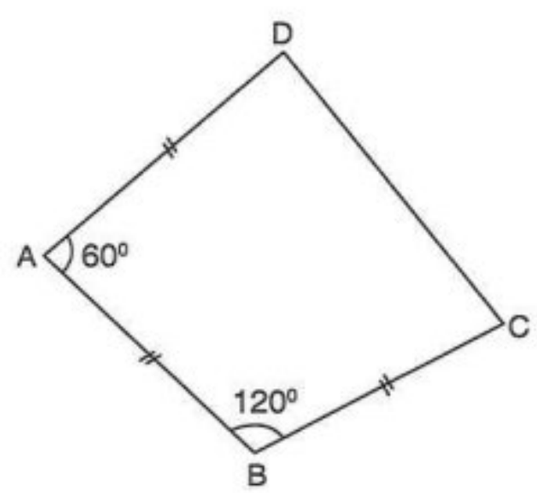
$|DE| = 5\,br$

$|AE| = 2\,br$

$\Rightarrow A(ABCD) = ?$

A) 30 B) 45 C) 48 D) 52 E) 54

5.



$m(\widehat{ABC}) = 120°$

$m(\widehat{DAB}) = 60°$

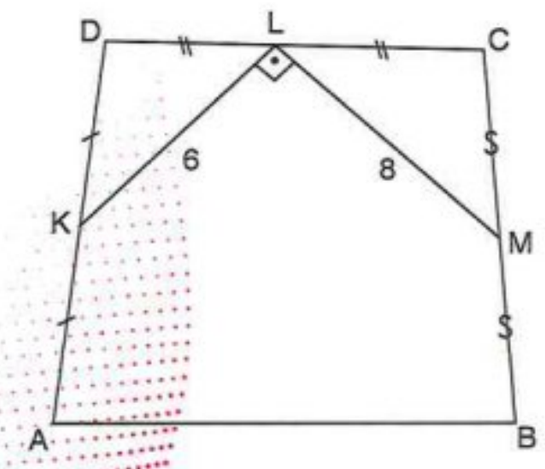
$|AD| = |AB| = |BC|$

$|DC| = 6\,br$

$\Rightarrow A(ABCD) = ?$

A) $12\sqrt{3}$ B) $16\sqrt{3}$ C) $18\sqrt{3}$ D) $20\sqrt{3}$ E) $24\sqrt{3}$

6.



$[KL] \perp [LM]$

$|AK| = |KD|$

$|DL| = |LC|$

$|CM| = |MB|$

$|KL| = 6\,br$

$|LM| = 8\,br$

$\Rightarrow A(ABCD) = ?$

A) 80 B) 82 C) 84 D) 92 E) 96

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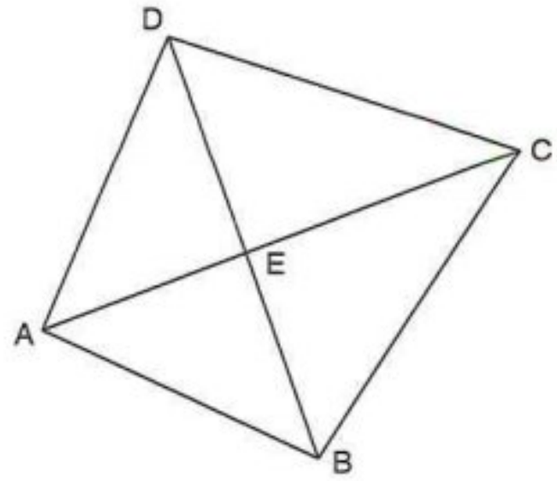
7.

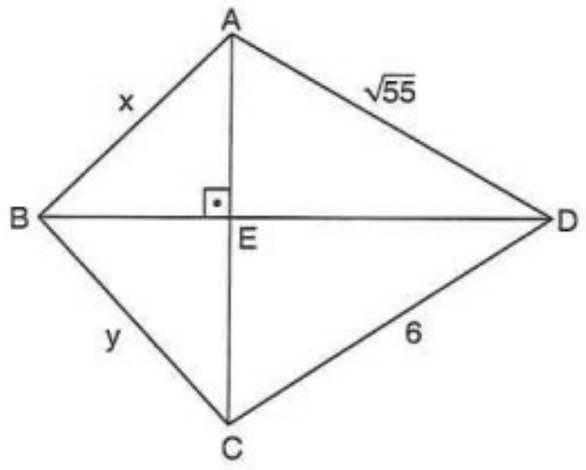


$A(DEC) = 9\,br^2$
$A(AEB) = 64\,br^2$
$A(ADE) = 16\,br^2$

⇒ **A(ECB) = ?**

A) 25 B) 30 C) 36 D) 45 E) 48

8.

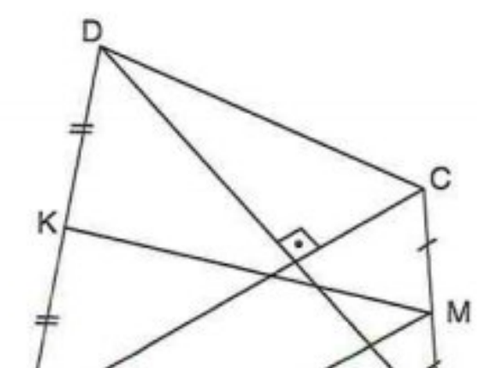


$x, y \in Z$
$[AC] \perp [BD]$
$|AD| = \sqrt{55}\,br$
$|CD| = 6\,br$
$|AB| = x\,br$
$|BC| = y\,br$

⇒ **x = ?**

A) 6 B) 8 C) 9 D) 7 E) 10

9.

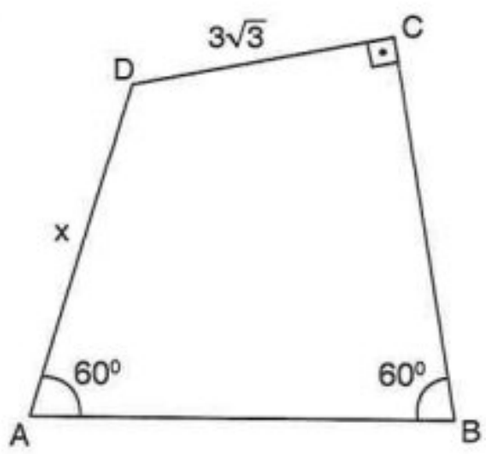


$[AC] \perp [BD]$
$|DK| = |KA|$
$|AL| = |LB|$
$|BM| = |MC|$
$|KM| = 12\,br$
$|BD| = 8\,br$

⇒ **A(ABCD) = ?**

A) $36\sqrt{5}$ B) 48 C) $64\sqrt{2}$ D) $80\sqrt{3}$ E) 96

10.

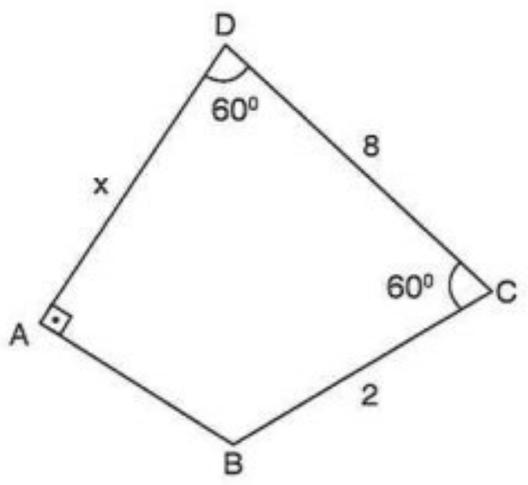


$[DC] \perp [BC]$
$m(\widehat{A}) = m(\widehat{B}) = 60°$
$|DC| = 3\sqrt{3}\,br$
$|BC| = (9\sqrt{3} - 3)\,br$

⇒ **|AD| = x = ?**

A) 6 B) $9\sqrt{3} - 6$ C) $9\sqrt{3} - 3$ D) $9\sqrt{3}$ E) 5

11.

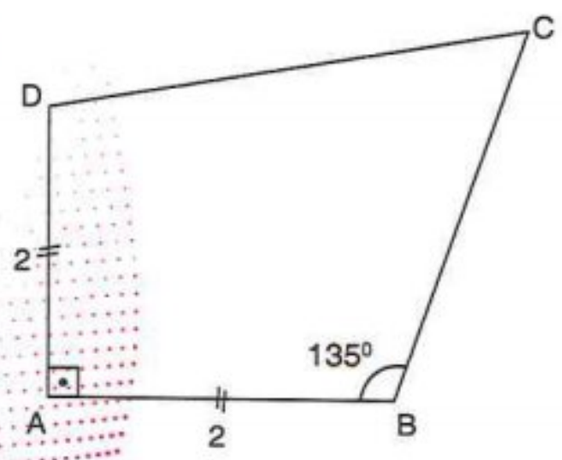


$[AD] \perp [AB]$
$m(\widehat{C}) = m(\widehat{D}) = 60°$
$|BC| = 2\,br$
$|DC| = 8\,br$

⇒ **|AD| = x = ?**

A) 2 B) 3 C) 4 D) 5 E) 6

12.



$[AD] \perp [AB]$
$m(\widehat{B}) = 135°$
$|AD| = |AB| = 2\,br$
$|BC| = 4\sqrt{2}\,br$

⇒ **|DC| = ?**

A) 4 B) $2\sqrt{10}$ C) $4\sqrt{5}$ D) $4\sqrt{10}$ E) 8

1. B	2. B	3. C	4. B	5. C	6. E
7. C	8. E	9. C	10. B	11. D	12. B

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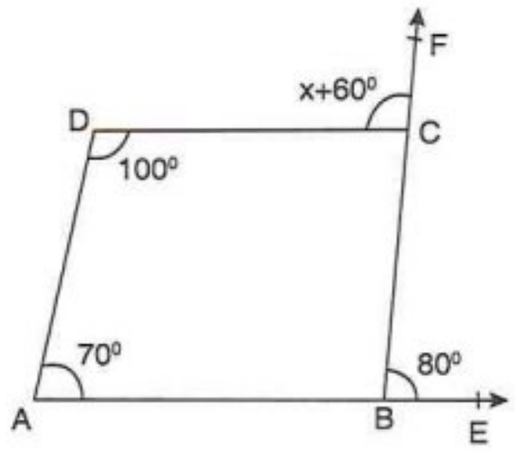
1.

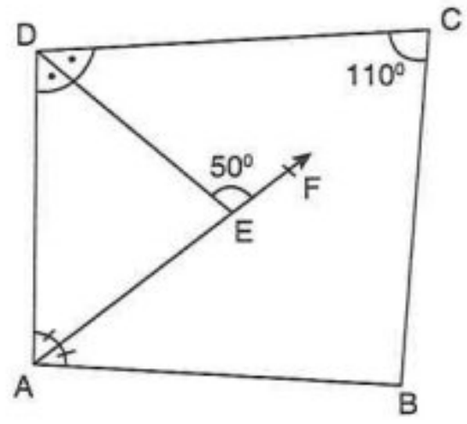


$m(\widehat{A}) = 70°$
$m(\widehat{D}) = 100°$
$m(E\widehat{B}F) = 80°$
$m(D\widehat{C}F) = x + 60°$

⇒ **x = ?**

A) 20° B) 30° C) 40° D) 50° E) 60°

2.

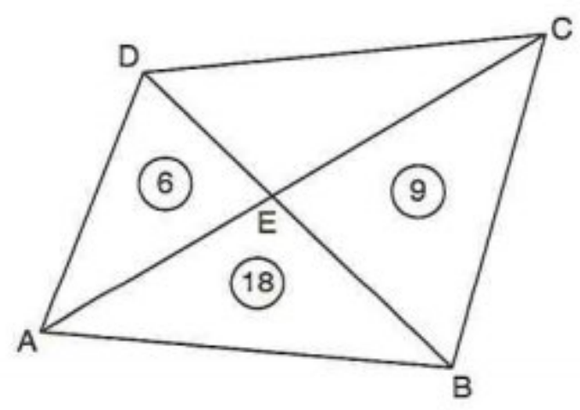


[DE], [AF] açıortay (bisector)
$m(\widehat{C}) = 110°$
$m(D\widehat{E}F) = 50°$

⇒ **$m(\widehat{B}) = ?$**

A) 100° B) 110° C) 120° D) 140° E) 150°

3.

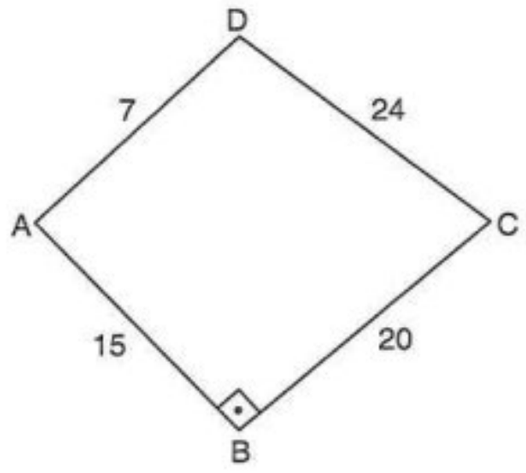


$A(AED) = 6\,br^2$
$A(CEB) = 9\,br^2$
$A(AEB) = 18\,br^2$

⇒ **A(DEC) = ?**

A)4 B) 3 C) 2 D) 1 E) $\frac{1}{2}$

4.

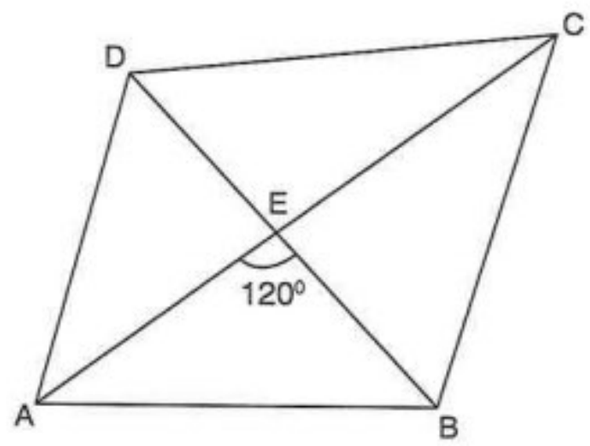


[AB] ⊥ [BC]
|AB| = 15 br
|AD| = 7 br
|BC| = 20 br
|DC| = 24 br

⇒ **A(ABCD) = ?**

A) 196 B) 200 C) 226 D) 234 E) 240

5.

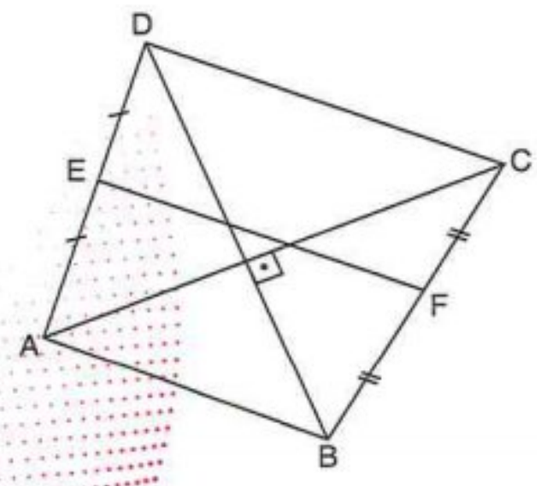


$m(A\widehat{E}B) = 120°$
|AC| = 8 br
$|BD| = 5\sqrt{3}$ br

⇒ **A(ABCD) = ?**

A) 30 B) 54 C) 60 D) 72 E) 96

6.



[AC] ⊥ [BD]
|AE| = |ED|
|BF| = |FC|
|BD| = 14 br
|AC| = 48 br

⇒ **|EF| = ?**

A) 20 B) 22 C) 24 D) 25 E) 28

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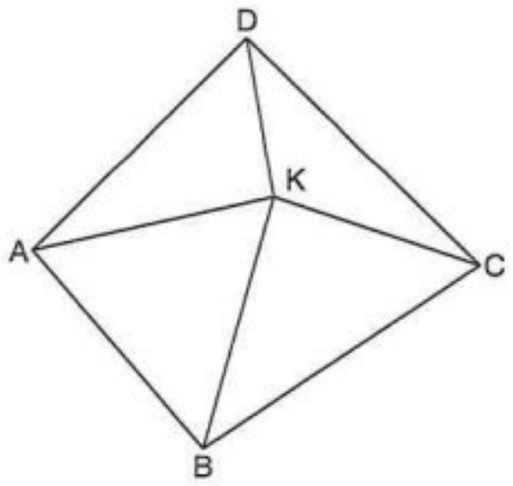
7.

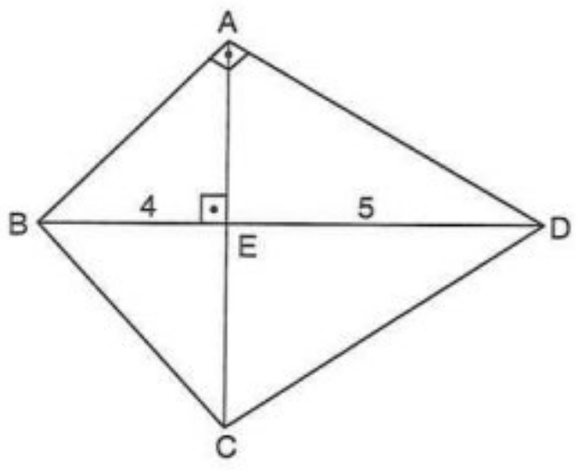


Ç(ABCD) = 36 br

⇒ **min(|AK|+|BK|+|CK|+|DK|) = ?**

A) 18 B) 19 C) 20 D) 21 E) 22

8.

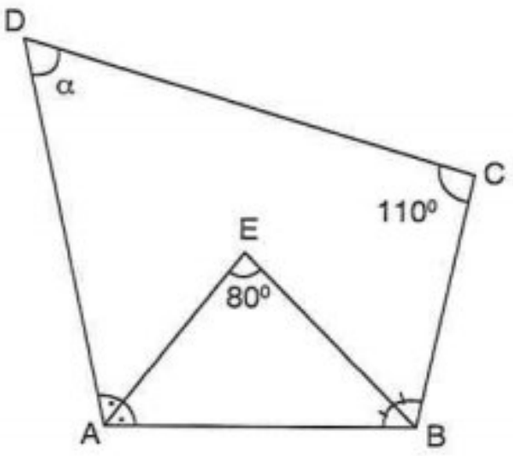


[AB] ⊥ [AD]
[AC] ⊥ [BD]
|BE| = 4 br
|ED| = 5 br

⇒ **$|CD|^2 - |BC|^2 = ?$**

A) 8 B) 9 C) 10 D) 11 E) 12

9.

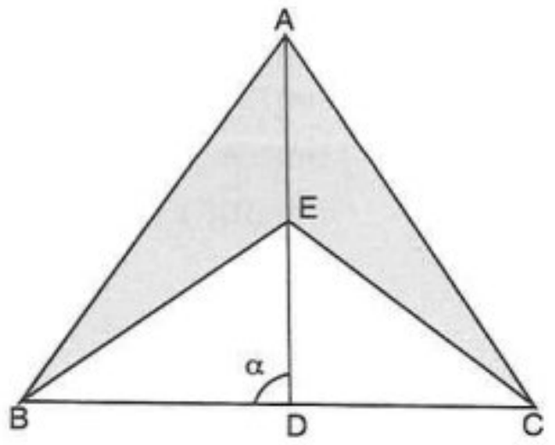


$m(\widehat{DAE}) = m(\widehat{EAB})$
$m(\widehat{ABE}) = m(\widehat{EBC})$
$m(\widehat{E}) = 80°$
$m(\widehat{C}) = 110°$

⇒ **$m(\widehat{D}) = \alpha = ?$**

A) 30° B) 40° C) 45° D) 50° E) 60°

10.

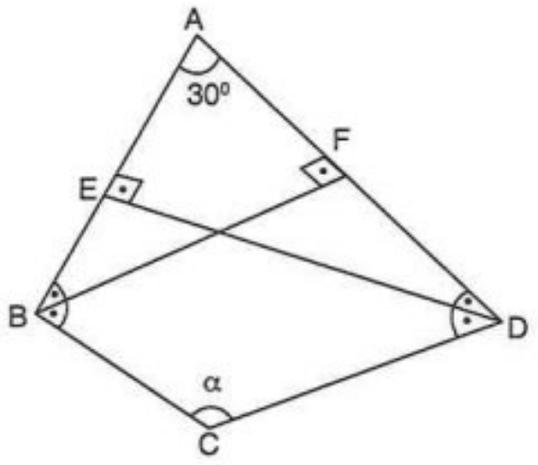


|AE| = 4 br
|BC| = 6 br
A(ABEC) = 6 br^2

⇒ **$m(\widehat{BDA}) = \alpha = ?$**

A) 150° B) 135° C) 120° D) 105° E) 75°

11.

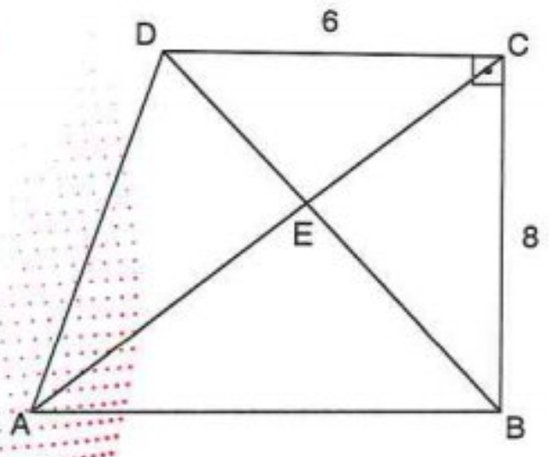


[BF] ⊥ [AD]
[DE] ⊥ [AB]
[BF], [DE] açıortay *(bisector)*
$m(\widehat{BAD}) = 30°$

⇒ **$m(\widehat{BCD}) = \alpha = ?$**

A) 80° B) 85° C) 90° D) 95° E) 100°

12.



[DC] ⊥ [CB]
3|EC| = 2|AE|
|DC| = 6 br
|BC| = 8 br

⇒ **A(ABCD) = ?**

A) 60 B) 64 C) 70 D) 72 E) 80

1. B	2. E	3. B	4. D	5. A	6. D
7. B	8. B	9. D	10. A	11. C	12. A

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PARALELKENAR
PARALLELOGRAM

KONU KAVRAMA TESTİ
Thread Grip Test

ZİHİN HARİTASI
Mind Map

6
TEST
Tests

120
SORU
Questions

ANER YÖS CANER YÖS CANER YÖS CANER YÖS CANER YÖS CANER YÖS CANER YÖS
im kurumları eğitim kurumları eğitim kurumları eğitim kurumları eğitim kurumları eğitim kurumları eğitim kurumları

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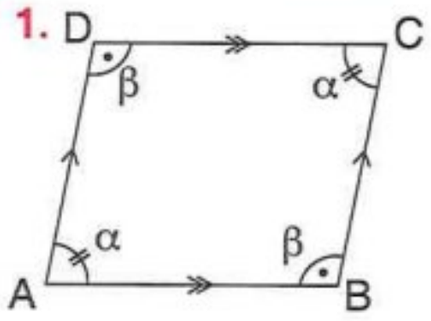
PARALELKENAR
PARALLELOGRAM

CANER eğitim kurumları

1.

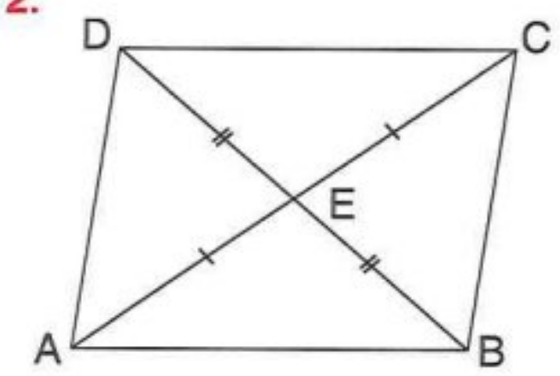


[AB] // [DC]
[AD] // [BC]
|AB| = |DC|
|AD| = |BC|

$m(\widehat{A}) = m(\widehat{C}) = \alpha$
$m(\widehat{B}) = m(\widehat{D}) = \beta$

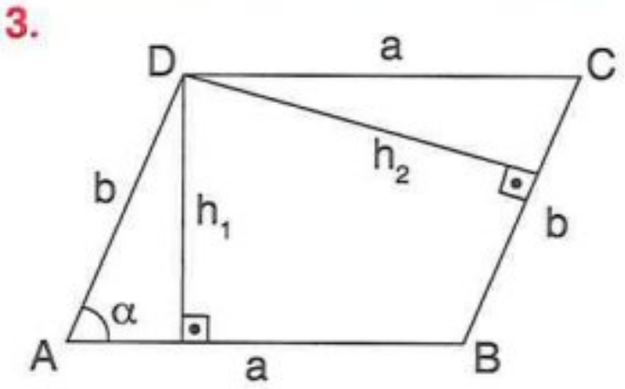
$\alpha + \beta = 180°$

2.



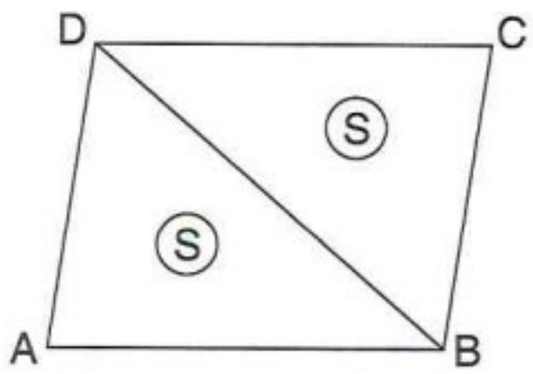
|AE| = |EC|
|DE| = |EB|

3.

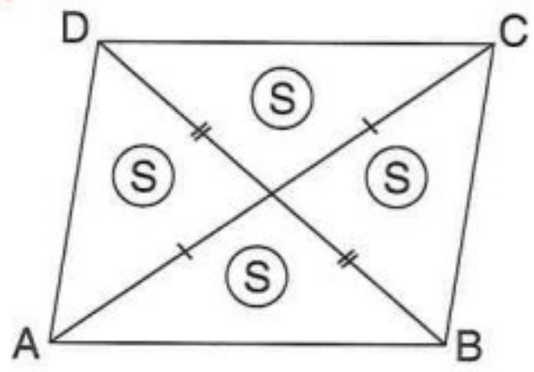


$A(ABCD) = a \cdot h_1 = b \cdot h_2$
$A(ABCD) = a \cdot b \cdot \sin\alpha$

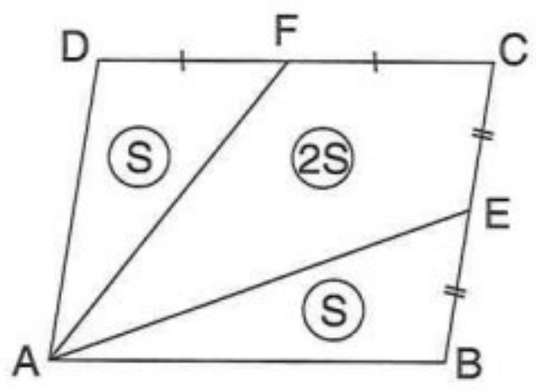
4.



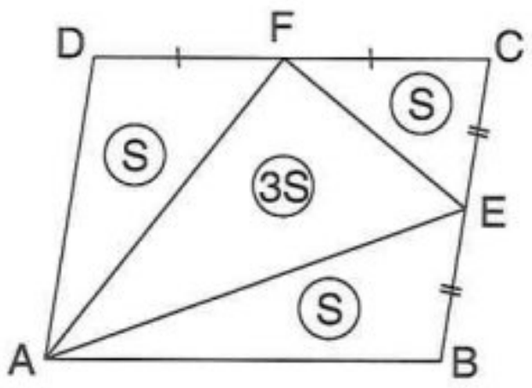
5.



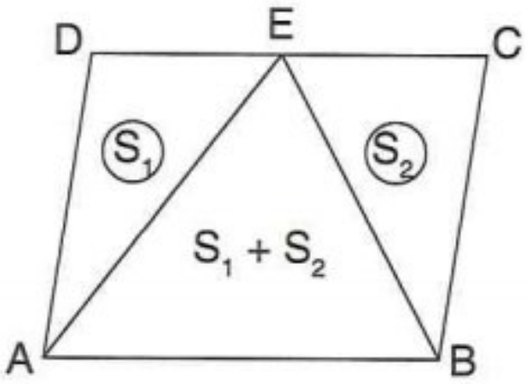
6.



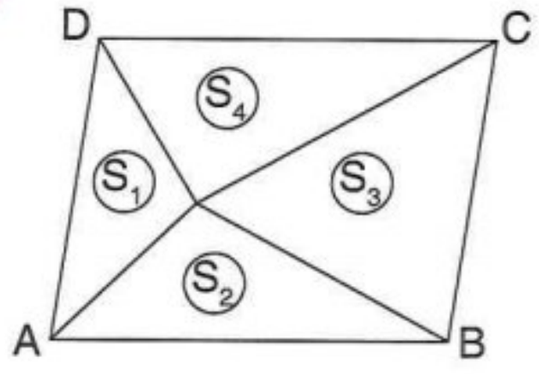
7.



8.

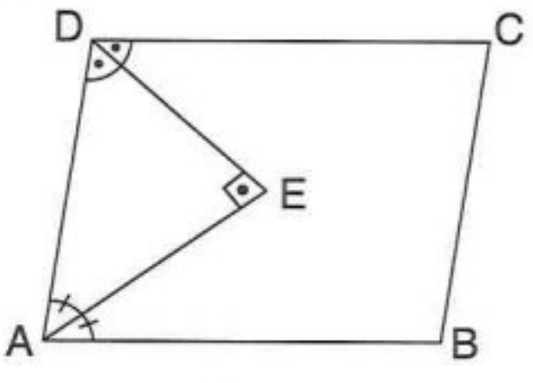


9.



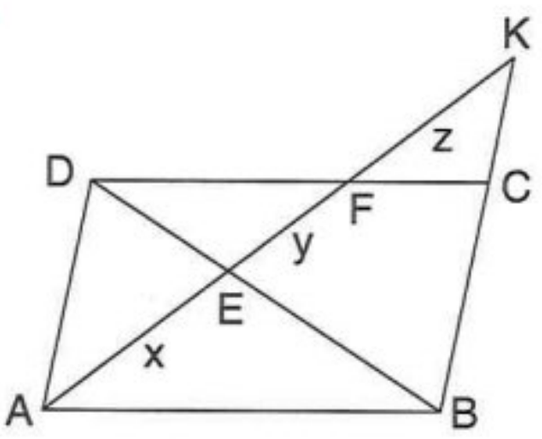
$S_1 + S_3 = S_2 + S_4 = \frac{A(ABCD)}{2}$

10.



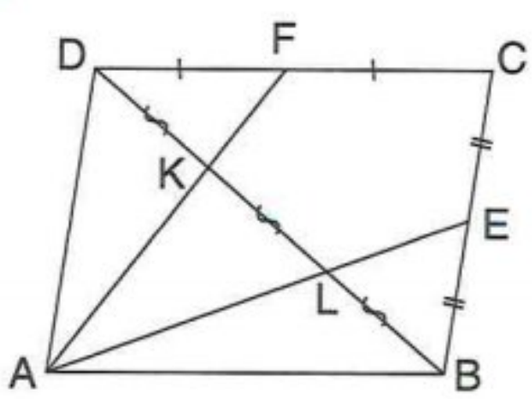
$m(\widehat{E}) = 90°$

11.



$x^2 = y \cdot (y + z)$

12.



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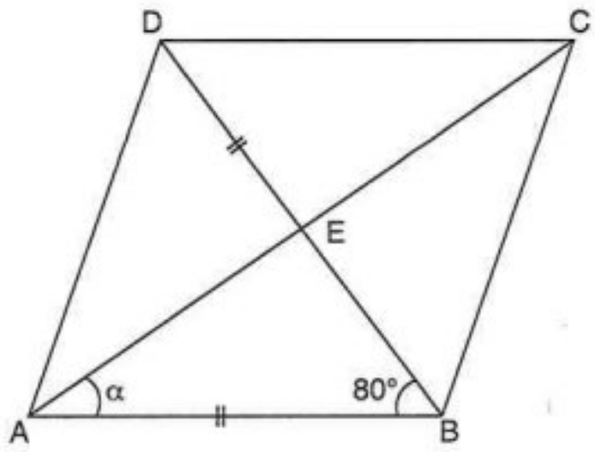
1.



ABCD paralelkenar (*parallelogram*)

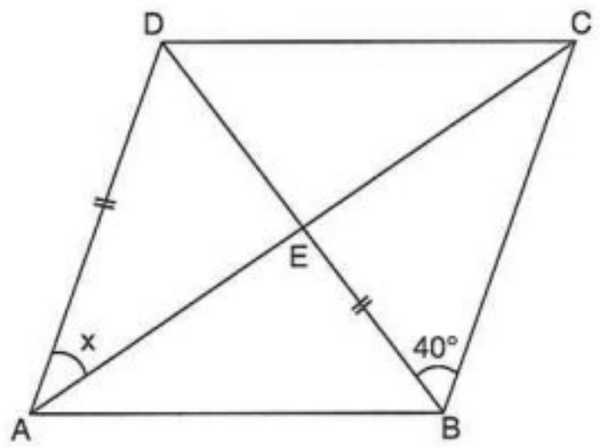
$|AB| = |DE|$

$m(A\widehat{B}D) = 80°$

$\Rightarrow m(\widehat{CAB}) = \alpha = ?$

A) 10° B) 20° C) 30° D) 40° E) 50°

2.



ABCD paralelkenar (*parallelogram*)

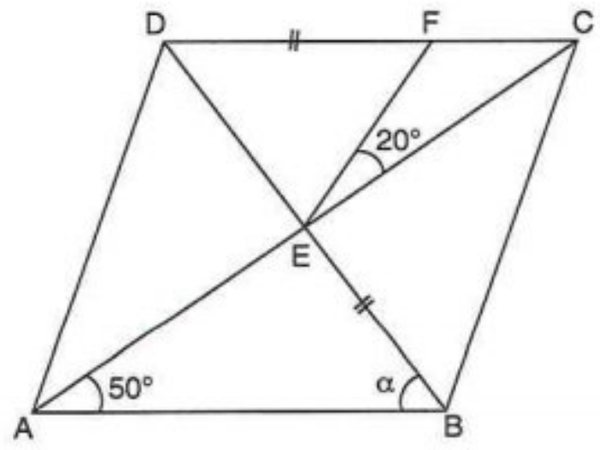
$|AD| = |EB|$

$m(D\widehat{B}C) = 40°$

$\Rightarrow m(\widehat{DAC}) = x = ?$

A) 40° B) 50° C) 60° D) 70° E) 80°

3.



ABCD paralelkenar (*parallelogram*)

$|DF| = |EB|$

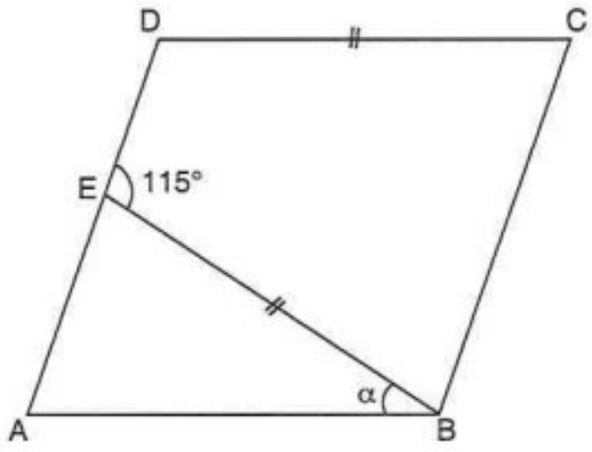
$m(F\widehat{E}C) = 20°$

$m(\widehat{CAB}) = 50°$

$\Rightarrow m(A\widehat{B}D) = \alpha = ?$

A) 30° B) 35° C) 40° D) 45° E) 50°

4.



ABCD paralelkenar (*parallelogram*)

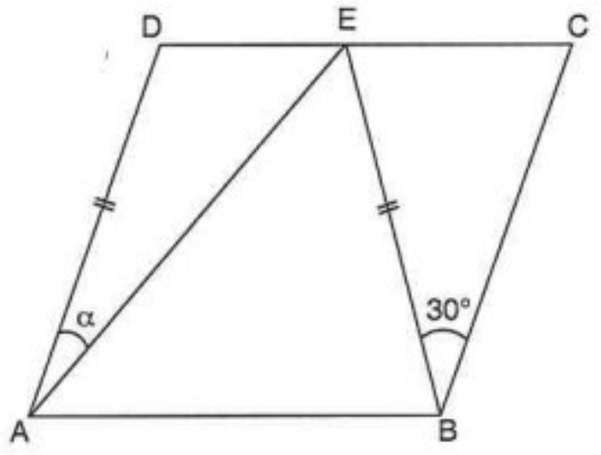
$|DC| = |EB|$

$m(D\widehat{E}B) = 115°$

$\Rightarrow m(E\widehat{B}A) = \alpha = ?$

A) 45° B) 50° C) 55° D) 60° E) 65°

5.



ABCD paralelkenar (*parallelogram*)

$|AD| = |EB|$

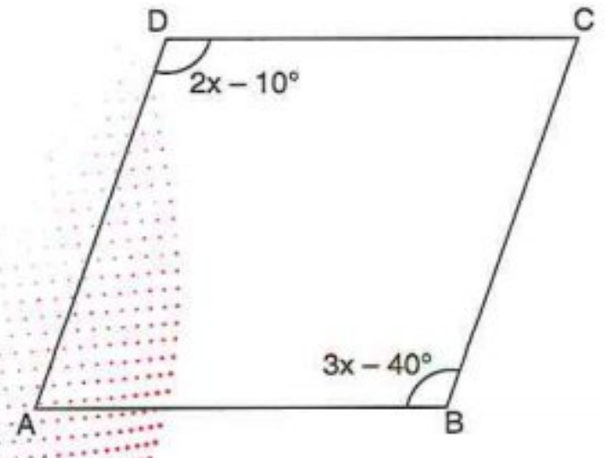
$|AE| = |DC|$

$m(E\widehat{B}C) = 30°$

$\Rightarrow m(\widehat{DAE}) = \alpha = ?$

A) 15° B) 30° C) 45° D) 60° E) 75°

6.



ABCD paralelkenar (*parallelogram*)

$m(A\widehat{D}C) = 2x - 10°$

$m(A\widehat{B}C) = 3x - 40°$

$\Rightarrow x = ?$

A) 10° B) 20° C) 30° D) 40° E) 50°

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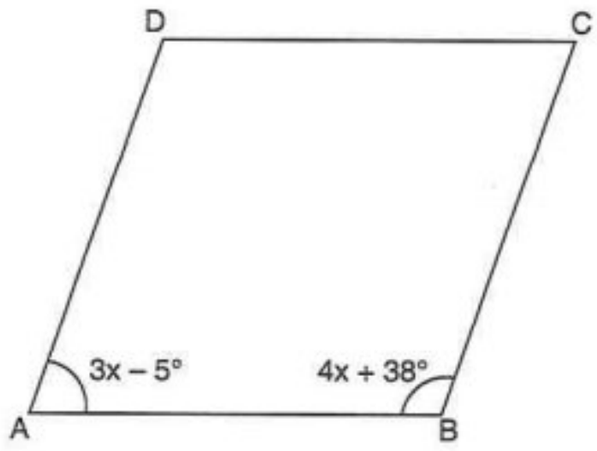
7.



ABCD paralelkenar (*parallelogram*)

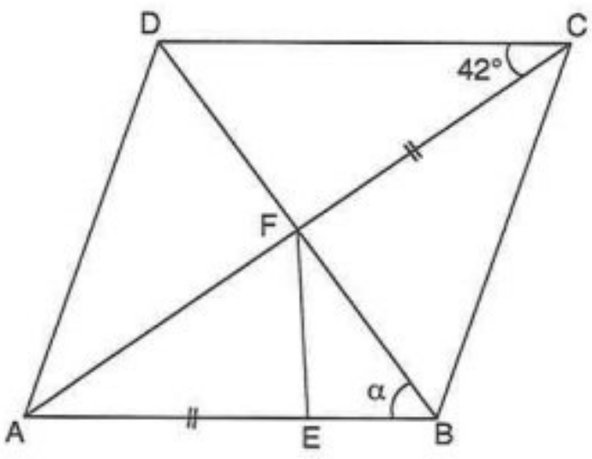
$m(\widehat{A}) = 3x - 5°$

$m(\widehat{B}) = 4x + 38°$

$\Rightarrow$ **$m(\widehat{C}) = ?$**

A) 21° B) 33° C) 38° D) 47° E) 58°

8.



ABCD paralelkenar (*parallelogram*)

$|CF| = |AE|$

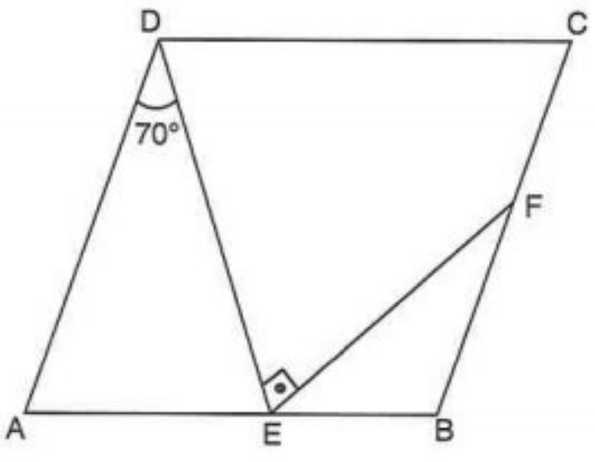
$m(\widehat{EFB}) = 45°$

$m(\widehat{DCA}) = 42°$

$\Rightarrow$ **$m(\widehat{ABD}) = \alpha = ?$**

A) 21° B) 22° C) 23° D) 24° E) 25°

9.



ABCD paralelkenar (*parallelogram*)

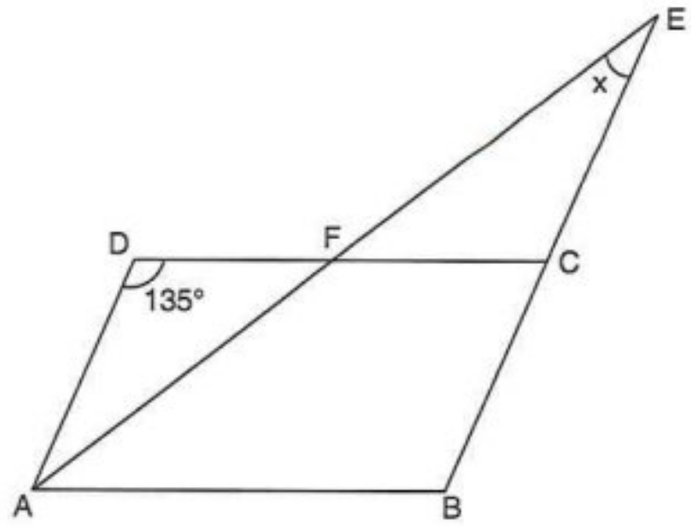
$[DE] \perp [EF]$

$m(\widehat{ADE}) = 70°$

$\Rightarrow$ **$m(\widehat{EFB}) = ?$**

A) 10° B) 20° C) 30° D) 35° E) 40°

10.



ABCD paralelkenar (*parallelogram*)

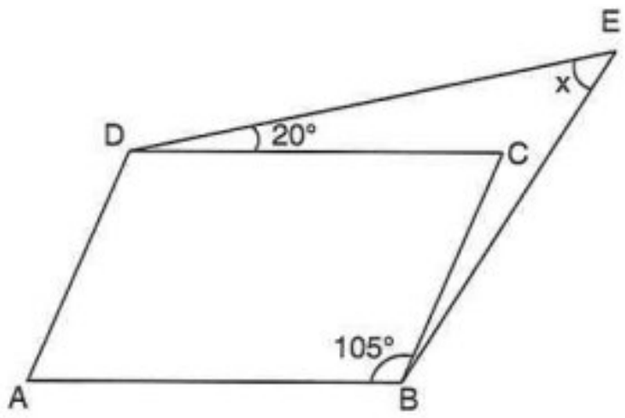
$2 \cdot m(\widehat{DAE}) = m(\widehat{EAB})$

$m(\widehat{ADC}) = 135°$

$\Rightarrow$ **$m(\widehat{FEC}) = ?$**

A) 15° B) 20° C) 25° D) 30° E) 35°

11.



ABCD paralelkenar (*parallelogram*)

$m(\widehat{EDC}) = 20°$

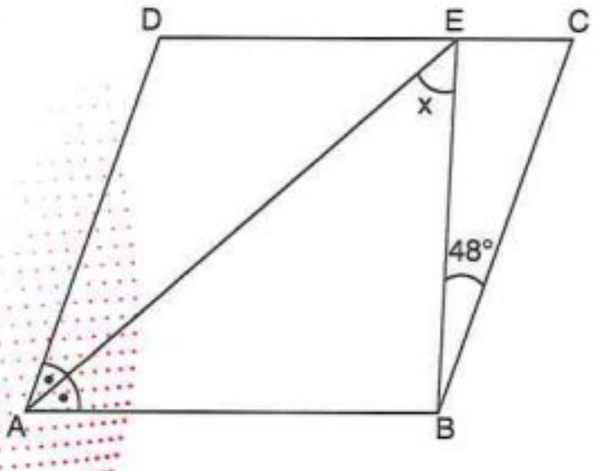
$m(\widehat{CBE}) = 20°$

$m(\widehat{ABC}) = 105°$

$\Rightarrow$ **$m(\widehat{DEB}) = x = ?$**

A) 25° B) 30° C) 35° D) 40° E) 45°

12.



ABCD paralelkenar (*parallelogram*)

$|BE| = |AD|$

$m(\widehat{DAE}) = m(\widehat{EAB})$

$m(\widehat{EBC}) = 48°$

$\Rightarrow$ **$m(\widehat{AEB}) = x = ?$**

A) 78° B) 79° C) 80° D) 81° E) 82°

1. E	2. D	3. C	4. B	5. C	6. C
7. E	8. D	9. B	10. A	11. C	12. D

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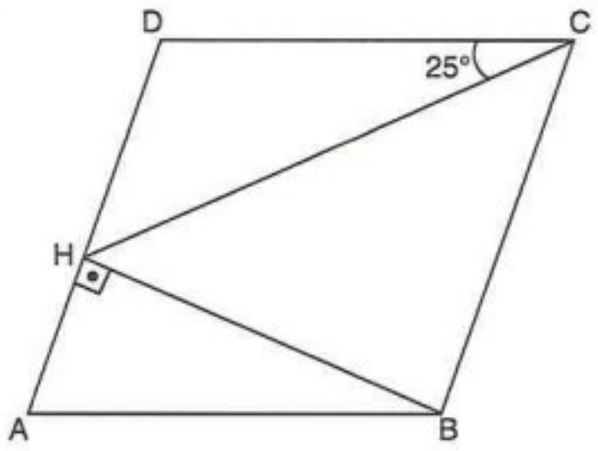
13.



ABCD paralelkenar (*parallelogram*)

$[BH] \perp [AD]$

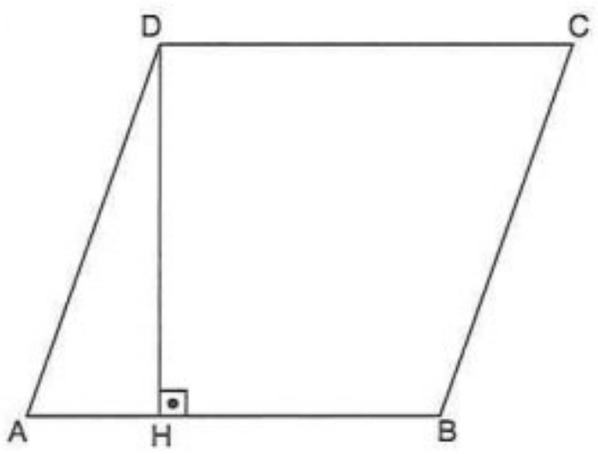
$|BH| = |AD|$

$m(\widehat{DCH}) = 25°$

$\Rightarrow m(\widehat{D}) = ?$

A) 95° B) 100° C) 105° D) 110° E) 115°

14.



ABCD paralelkenar (*parallelogram*)

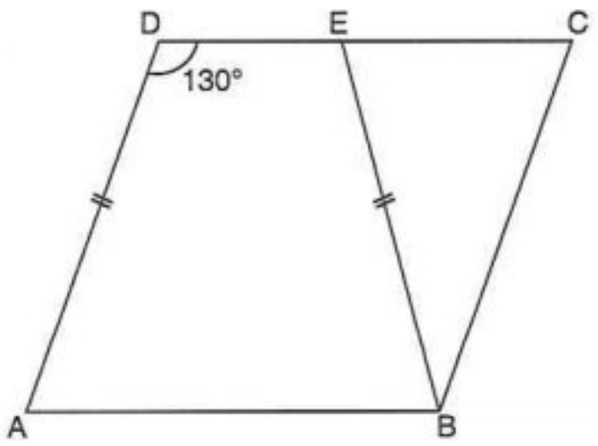
$[DH] \perp [AB]$

$m(\widehat{B}) = 7 \cdot m(\widehat{ADH})$

$\Rightarrow m(\widehat{A}) = ?$

A) 15° B) 30° C) 45° D) 60° E) 75°

15.



ABCD paralelkenar (*parallelogram*)

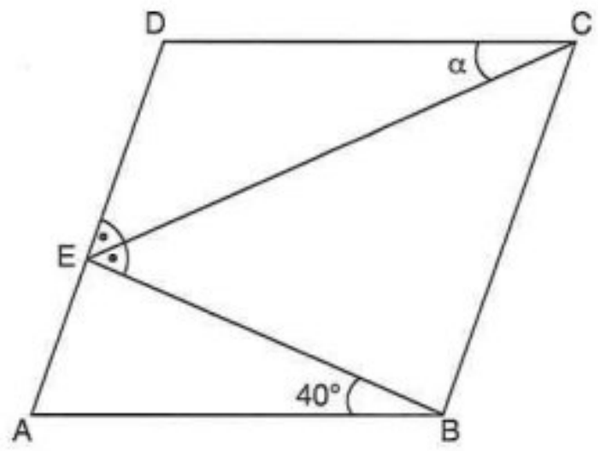
$|AD| = |EB|$

$m(\widehat{D}) = 130°$

$\Rightarrow m(\widehat{EBC}) = ?$

A) 90° B) 80° C) 70° D) 60° E) 50°

16.



ABCD paralelkenar (*parallelogram*)

$|EB| = |DC|$

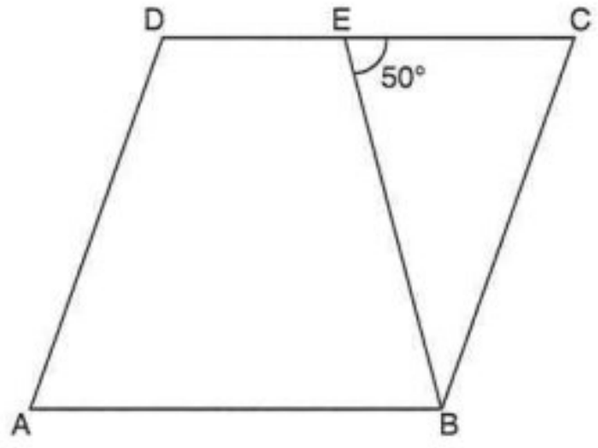
$m(\widehat{DEC}) = m(\widehat{CEB})$

$m(\widehat{ABE}) = 40°$

$\Rightarrow m(\widehat{DCE}) = \alpha = ?$

A) 15° B) 20° C) 25° D) 30° E) 40°

17.



ABCD paralelkenar (*parallelogram*)

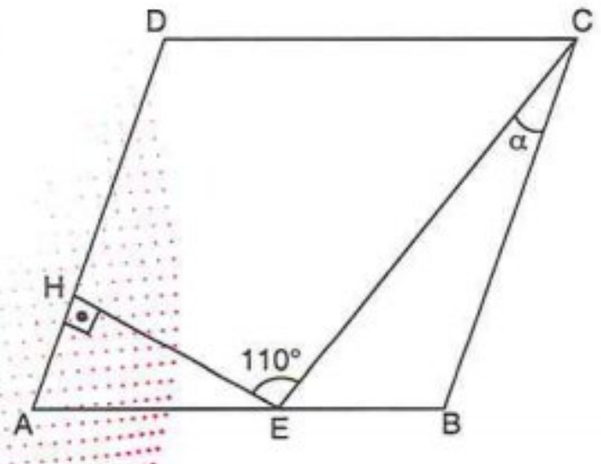
$|EC| = |AD|$

$m(\widehat{CEB}) = 50°$

$\Rightarrow m(\widehat{DAB}) = ?$

A) 50° B) 60° C) 70° D) 80° E) 90°

18.



ABCD paralelkenar (*parallelogram*)

$[EH] \perp [AD]$

$m(\widehat{HEC}) = 110°$

$\Rightarrow m(\widehat{ECB}) = \alpha = ?$

A) 15° B) 20° C) 25° D) 30° E) 35°

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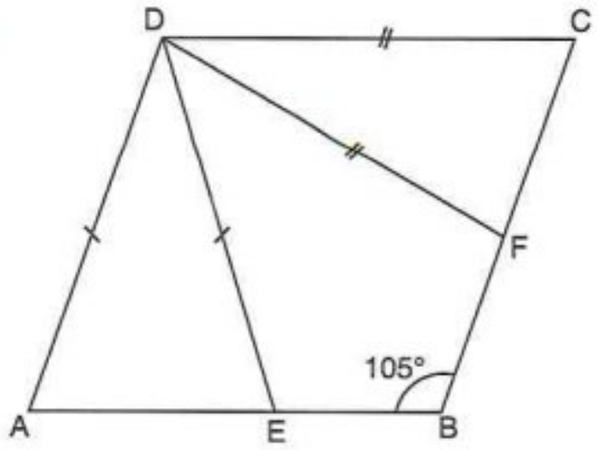
19.



ABCD paralelkenar (*parallelogram*)

$|AD| = |DE|$

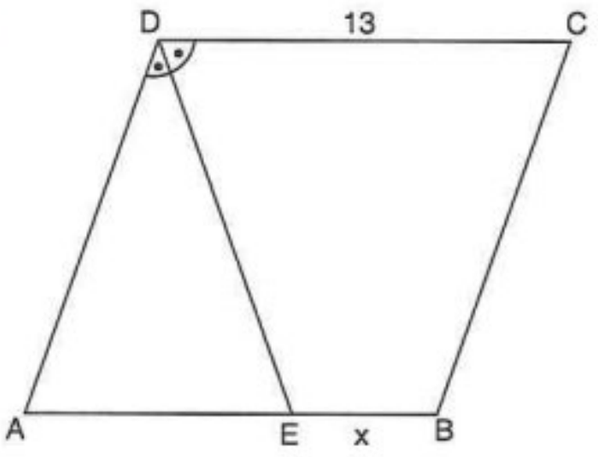
$|FD| = |DC|$

$m(\widehat{ABC}) = 105°$

$\Rightarrow m(\widehat{EDF}) = ?$

A) 15° B) 20° C) 25° D) 30° E) 45°

20.



ABCD paralelkenar (*parallelogram*)

$m(\widehat{ADE}) = m(\widehat{EDC})$

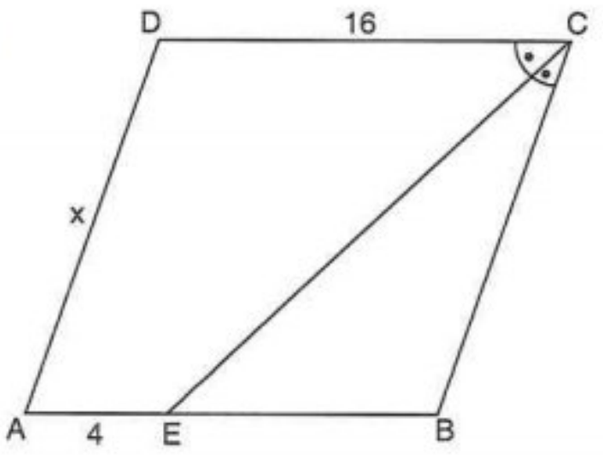
$|BC| = 7$ br

$|DC| = 13$ br

$\Rightarrow |EB| = x = ?$

A) 5 B) 6 C) 7 D) 8 E) 9

21.



ABCD paralelkenar (*parallelogram*)

$m(\widehat{DCE}) = m(\widehat{ECB})$

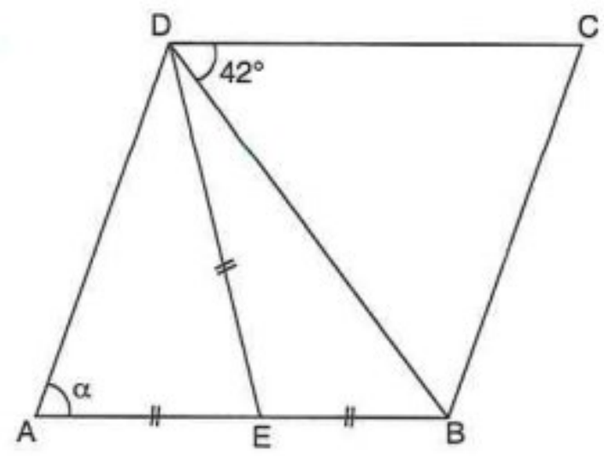
$|AE| = 4$ br

$|DC| = 16$ br

$\Rightarrow |AD| = x = ?$

A) 4 B) 6 C) 8 D) 10 E) 12

22.



ABCD paralelkenar (*parallelogram*)

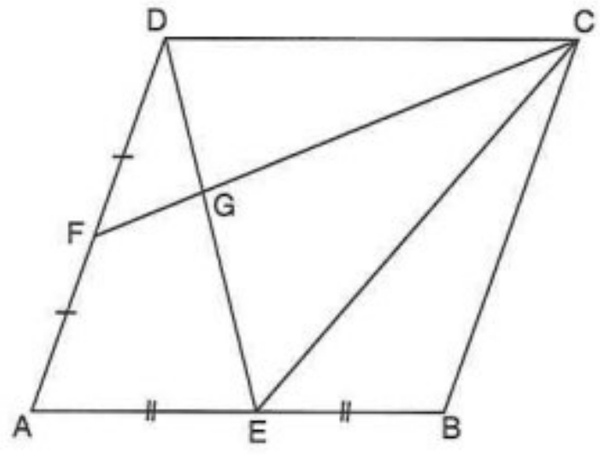
$|AE| = |EB| = |DE|$

$m(\widehat{BDC}) = 42°$

$\Rightarrow m(\widehat{DAB}) = \alpha = ?$

A) 42° B) 44° C) 46° D) 48° E) 50°

23.



ABCD paralelkenar (*parallelogram*)

$|DF| = |AF|$

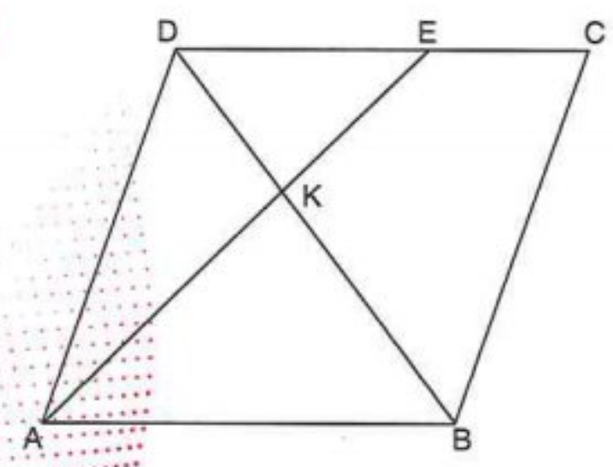
$|AE| = |EB|$

$|ED| = 30$ br

$\Rightarrow |GE| = ?$

A) 12 B) 16 C) 18 D) 20 E) 24

24.



ABCD paralelkenar (*parallelogram*)

$|DE| = 2|EC|$

$|BD| = 20$ br

$\Rightarrow |KB| = ?$

A) 5 B) 10 C) 12 D) 15 E) 18

13. D	14. E	15. B	16. A	17. D	18. B
19. E	20. B	21. E	22. D	23. C	24. C

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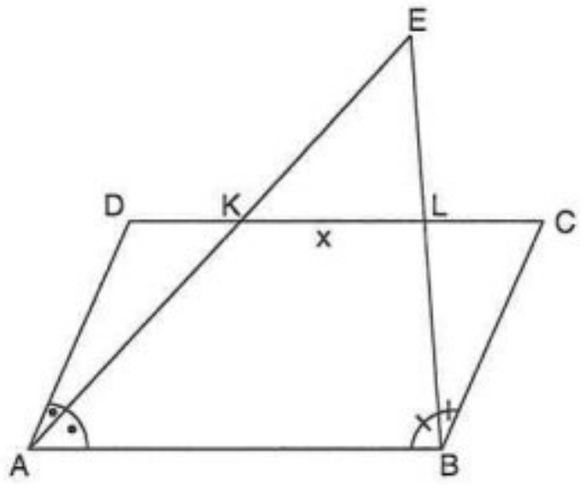
25.



ABCD paralelkenar (*parallelogram*)

$m(\widehat{DAE}) = m(\widehat{EAB})$

$m(\widehat{ABE}) = m(\widehat{EBC})$

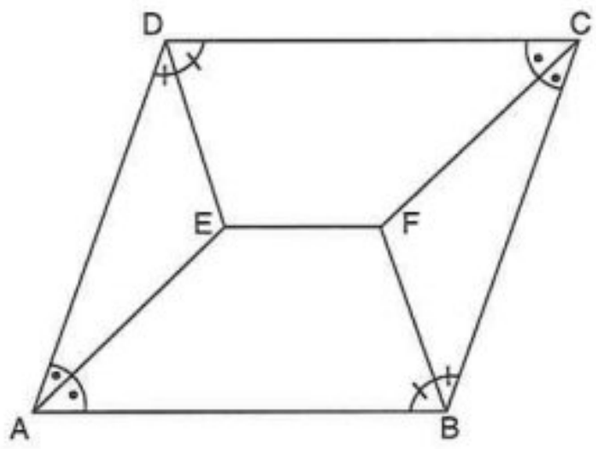
$|AD| = 4$ br

$|AB| = 13$ br

⇒ **$|KL| = x = ?$**

A) 4 B) 5 C) 6 D) 7 E) 8

26.



ABCD paralelkenar (*parallelogram*)

[AE], [BF], [CF], [DE] açıortay (*bisector*)

$[EF] \,/\!/\, [AB]$

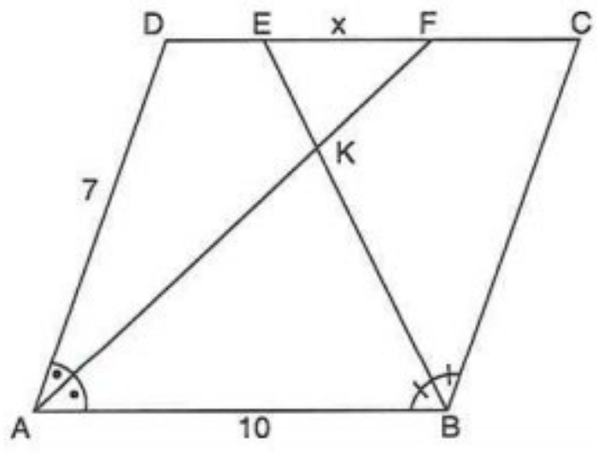
$|AB| = 18$ br

$|AD| = 10$ br

⇒ **$|EF| = ?$**

A) 6 B) 7 C) 8 D) 9 E) 10

27.



ABCD paralelkenar (*parallelogram*)

$m(\widehat{DAF}) = m(\widehat{FAB})$

$m(\widehat{ABE}) = m(\widehat{EBC})$

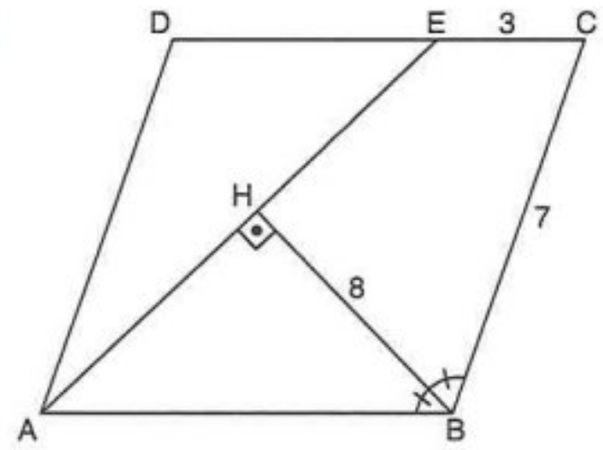
$|AD| = 7$ br

$|AB| = 10$ br

⇒ **$|EF| = x = ?$**

A) 3 B) 4 C) 5 D) 6 E) 7

28.



ABCD paralelkenar (*parallelogram*)

$[BH] \perp [AE]$

$m(\widehat{ABH}) = m(\widehat{HBC})$

$|EC| = 3$ br

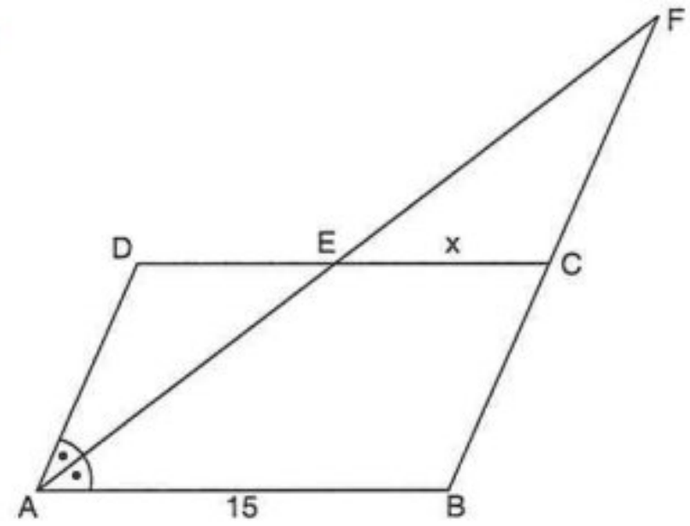
$|BC| = 7$ br

$|BH| = 8$ br

⇒ **$|AH| = ?$**

A) 6 B) $4\sqrt{3}$ C) $4\sqrt{6}$ D) 8 E) $8\sqrt{3}$

29.



ABCD paralelkenar (*parallelogram*)

$m(\widehat{DAF}) = m(\widehat{FAB})$

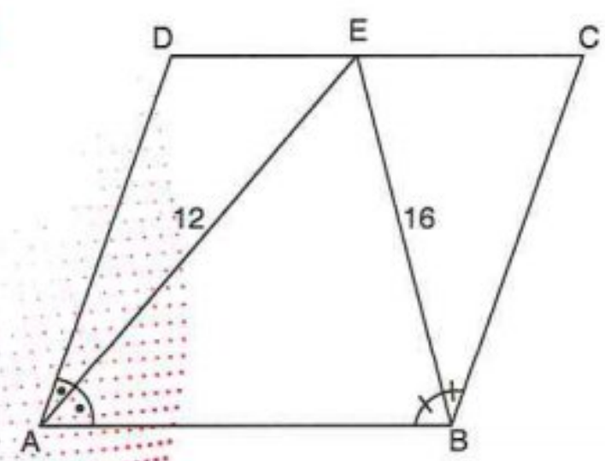
$|BC| = 12$ br

$|AB| = 15$ br

⇒ **$|EC| = x = ?$**

A) 2 B) 3 C) 4 D) 5 E) 6

30.



ABCD paralelkenar (*parallelogram*)

$m(\widehat{DAE}) = m(\widehat{EAB})$

$m(\widehat{ABE}) = m(\widehat{EBC})$

$|AE| = 12$ br

$|EB| = 16$ br

⇒ **Ç(ABCD) = ?**

A) 30 B) 40 C) 50 D) 60 E) 80

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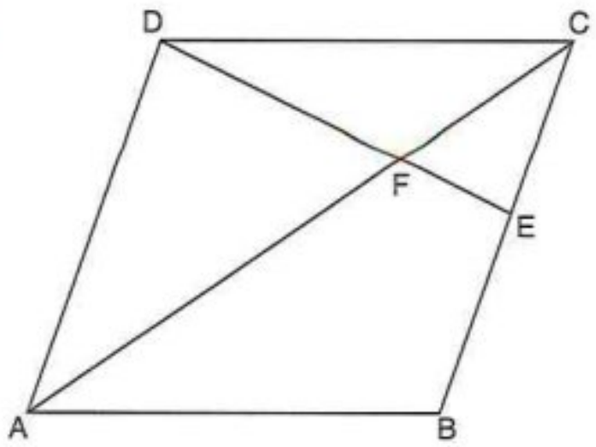
31.



ABCD paralelkenar (*parallelogram*)

$|AD| = 18$ br

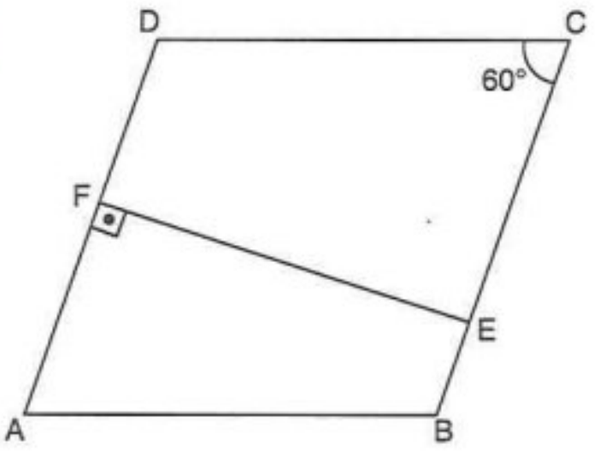
$|DF| = 12$ br

$|FE| = 8$ br

⇒ **$|EB| = ?$**

A) 4 B) 5 C) 6 D) 7 E) 8

32.



ABCD paralelkenar (*parallelogram*)

$[EF] \perp [AD]$

$m(\widehat{DCB}) = 60°$

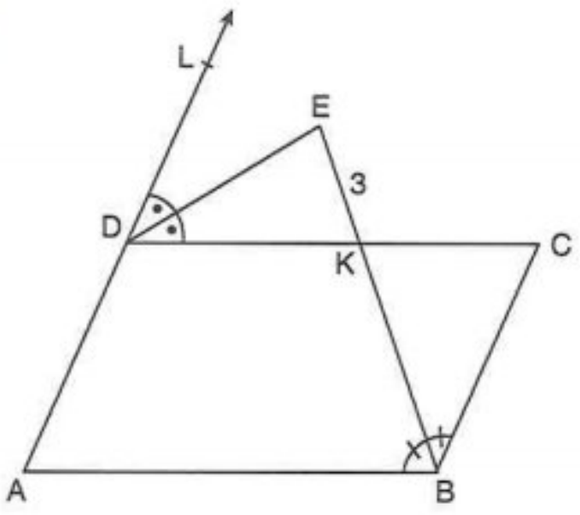
$|EB| = |DF| = 2$ br

$|AB| = 10$ br

⇒ **Ç(ABCD) = ?**

A) 36 B) 38 C) 40 D) 42 E) 44

33.



ABCD paralelkenar

$m(\widehat{LDE}) = m(\widehat{EDC})$

$m(\widehat{ABE}) = m(\widehat{EBC})$

$|EK| = 3$ br

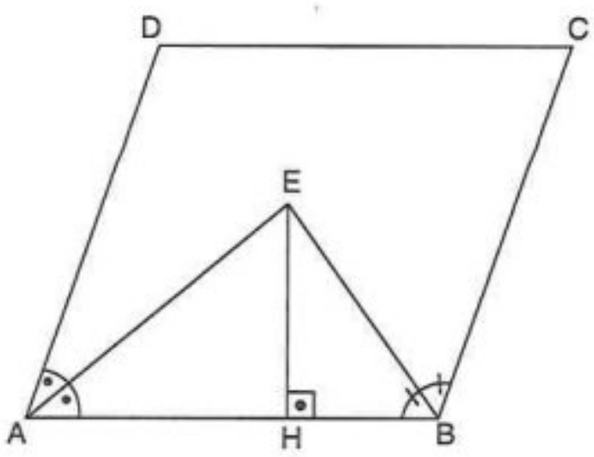
$|DE| = 4$ br

$|AD| = 8$ br

⇒ **Ç(ABCD) = ?**

A) 42 B) 44 C) 46 D) 48 E) 50

34.



ABCD paralelkenar (*parallelogram*)

$m(\widehat{DAE}) = m(\widehat{EAB})$

$m(\widehat{ABE}) = m(\widehat{EBC})$

$[EH] \perp [AB]$

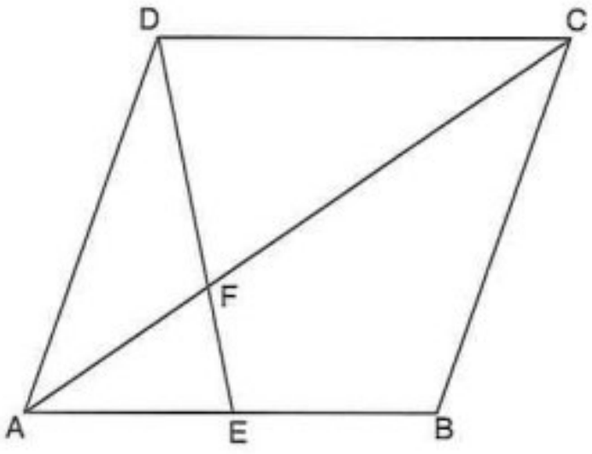
$|EH| = 4$ br

$|AD| = 6$ br

⇒ **A(ABCD) = ?**

A) 12 B) 16 C) 24 D) 36 E) 48

35.



ABCD paralelkenar (*parallelogram*)

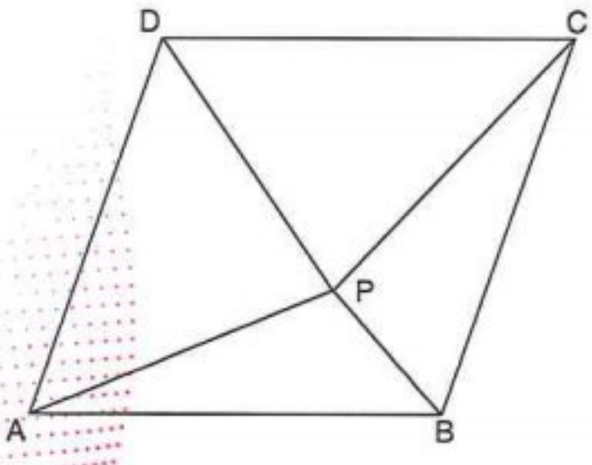
$|AE| = 2|EB|$

$A(AFE) = 8$ br^2

⇒ **A(ABCD) = ?**

A) 50 B) 54 C) 56 D) 60 E) 64

36.



ABCD paralelkenar (*parallelogram*)

$A(APB) = 4$ br^2

$A(BPC) = 9$ br^2

$A(DPC) = 20$ br^2

⇒ **A(APD) = ?**

A) 14 B) 15 C) 16 D) 17 E) 18

25. B	26. C	27. B	28. A	29. B	30. D
31. C	32. B	33. A	34. E	35. D	36. B

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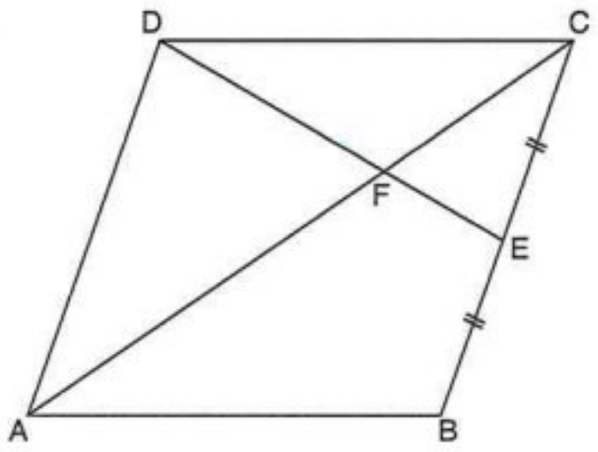
37.



ABCD paralelkenar (*parallelogram*)

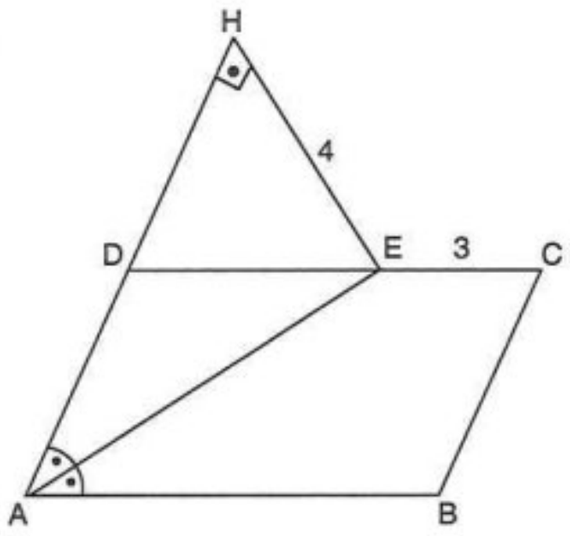
$|BE| = |EC|$

$A(FCE) = 4\ br^2$

⇒ **A(ABCD) = ?**

A) 32 B) 36 C) 40 D) 44 E) 48

38.



ABCD paralelkenar (*parallelogram*)

$m(\widehat{HAE}) = m(\widehat{EAB})$

$[EH] \perp [AH]$

$|EC| = 3$ br

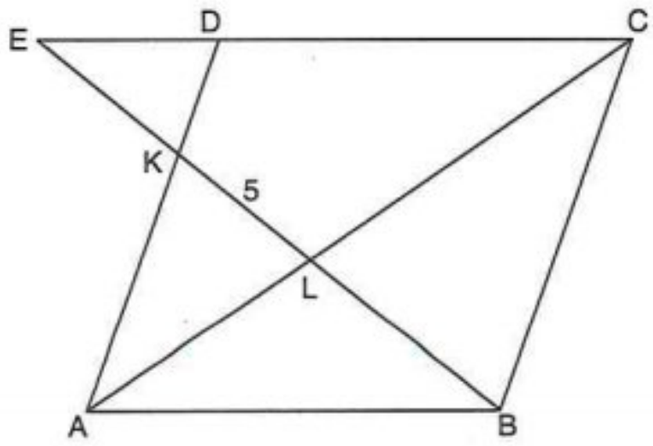
$|EH| = 4$ br

$|BC| = 6$ br

⇒ **A(ABCD) = ?**

A) 24 B) 28 C) 36 D) 40 E) 48

39.



ABCD paralelkenar (*parallelogram*)

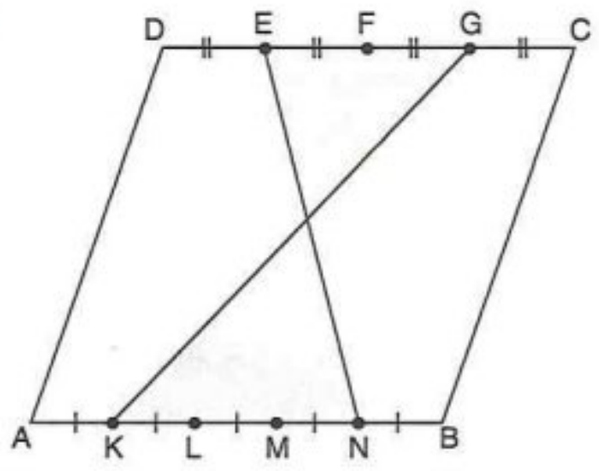
$|EK| = 3$ br

$|KL| = 5$ br

⇒ **|LB| = ?**

A) $2\sqrt{2}$ B) $\sqrt{15}$ C) 4 D) $2\sqrt{6}$ E) $2\sqrt{10}$

40.



ABCD paralelkenar (*parallelogram*)

$|DE| = |EF| = |FG| = |GC|$

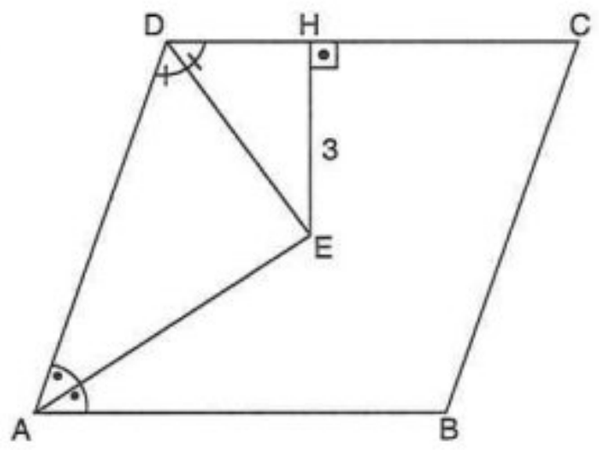
$|AK| = |KL| = |LM| = |MN| = |NB|$

$A(ABCD) = 220\ br^2$

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 64 B) 63 C) 62 D) 61 E) 60

41.



ABCD paralelkenar (*parallelogram*)

$m(\widehat{DAE}) = m(\widehat{EAB})$

$m(\widehat{ADE}) = m(\widehat{EDC})$

$[EH] \perp [DC]$

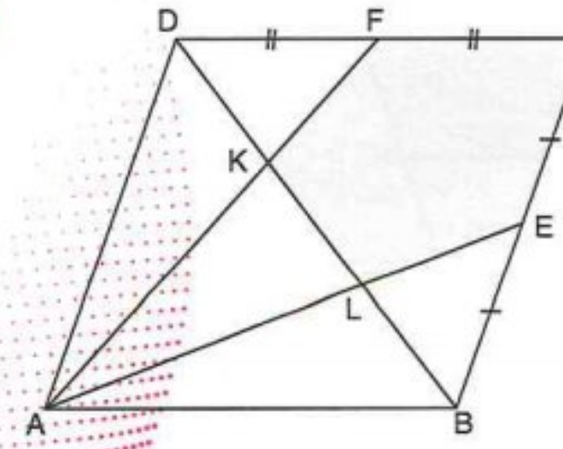
$|EH| = 3$ br

$|AB| = 8$ br

⇒ **A(ABCD) = ?**

A) 24 B) 32 C) 36 D) 44 E) 48

42.



ABCD paralelkenar (*parallelogram*)

$|DF| = |FC|$

$|CE| = |EB|$

$A(AKL) = 12\ br^2$

⇒ **A(FKLEC) = ?**

A) 18 B) 20 C) 24 D) 28 E) 36

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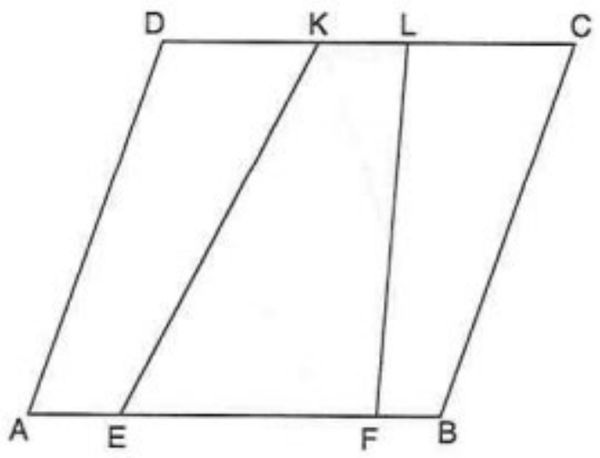
43.



ABCD paralelkenar (*parallelogram*)

$|DC| = 4|KL|$

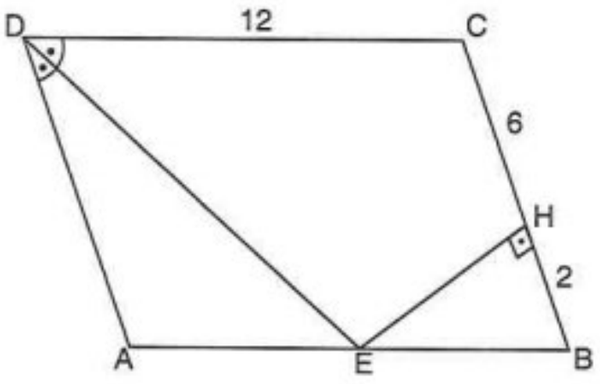
$5|EF| = 3|AB|$

$A(ABCD) = 80\ br^2$

⇒ **A(EFLK) = ?**

A) 34 B) 36 C) 38 D) 40 E) 42

44.



ABCD paralelkenar (*parallelogram*)

$[EH] \perp [BC]$

$m(A\widehat{D}E) = m(E\widehat{D}C)$

$|HB| = 2$ br

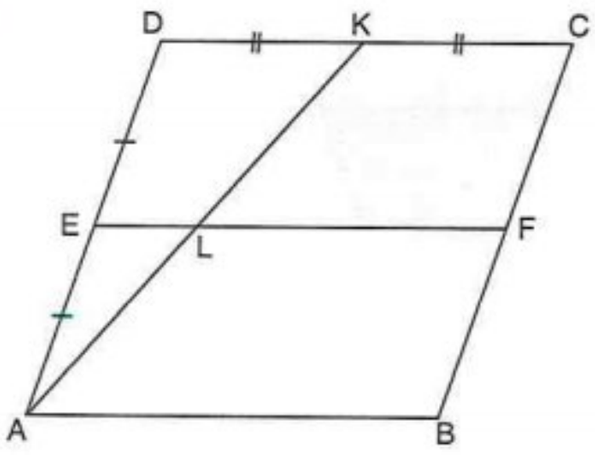
$|CH| = 6$ br

$|DC| = 12$ br

⇒ **A(ABCD) = ?**

A) $36\sqrt{3}$ B) $48\sqrt{3}$ C) $54\sqrt{3}$ D) $60\sqrt{3}$ E) $72\sqrt{3}$

45.



ABCD paralelkenar (*parallelogram*)

$[EF] \mathbin{/\!/} [AB]$

$|AE| = |ED|$

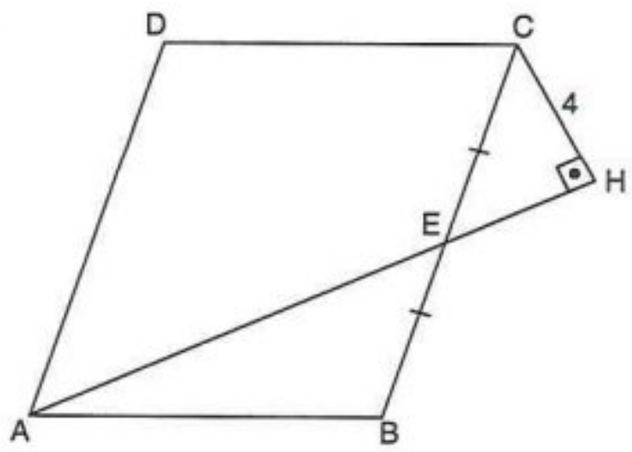
$|DK| = |KC|$

$A(LFCK) = 10\ br^2$

⇒ **A(ABCD) = ?**

A) 16 B) 24 C) 32 D) 36 E) 48

46.



ABCD paralelkenar (*parallelogram*)

$[CH] \perp [AH]$

$|CE| = |EB|$

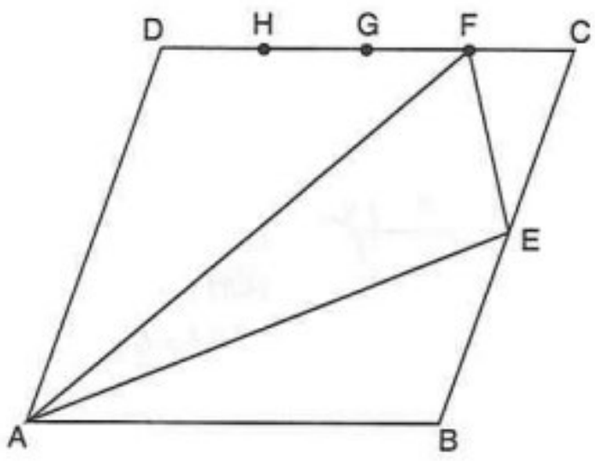
$|CH| = 4$ br

$|AE| = 16$ br

⇒ **A(ABCD) = ?**

A) 32 B) 64 C) 96 D) 112 E) 128

47.



ABCD paralelkenar (*parallelogram*)

$|DH| = |HG| = |GF| = |FC|$

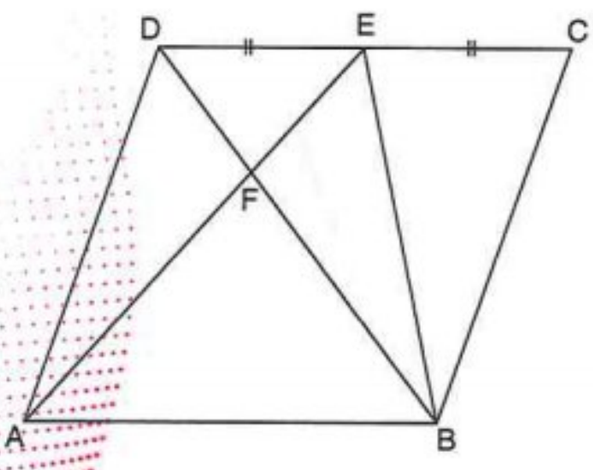
$|BE| = |EC|$

$A(ABCD) = 80\ br^2$

⇒ **A(AEF) = ?**

A) 10 B) 15 C) 20 D) 25 E) 30

48.



ABCD paralelkenar (*parallelogram*)

$|DE| = |EC|$

$A(BEF) = 5\ br^2$

⇒ **A(ABCD) = ?**

A) 10 B) 15 C) 20 D) 25 E) 30

37. E	38. C	39. E	40. D	41. E	42. C
43. A	44. B	45. C	46. E	47. D	48. E

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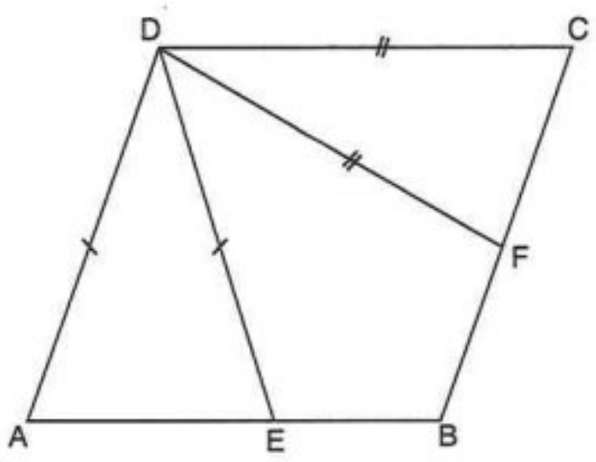
1.



ABCD paralelkenar (*parallelogram*)

$|AD| = |DE|$

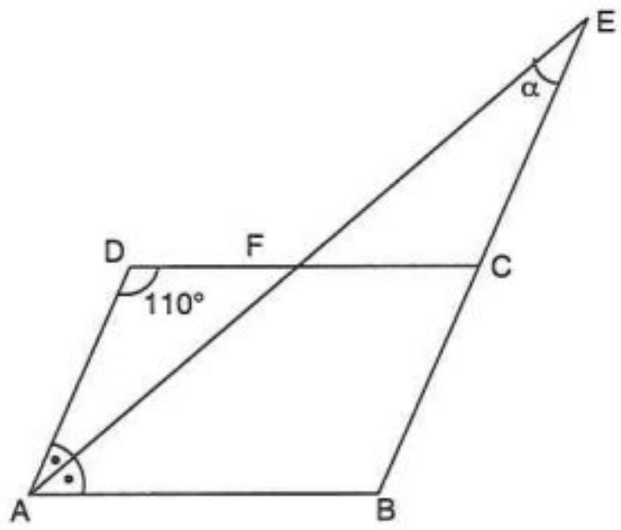
$|DF| = |DC|$

$m(\widehat{DEB}) = 100°$

$\Rightarrow m(\widehat{EDF}) = ?$

A) 40° B) 45° C) 50° D) 55° E) 60°

2.



ABCD paralelkenar (*parallelogram*)

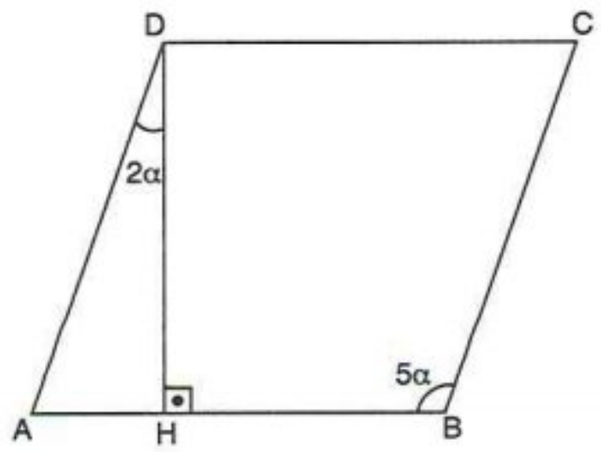
$m(\widehat{DAE}) = m(\widehat{EAB})$

$m(\widehat{ADC}) = 110°$

$\Rightarrow m(\widehat{AEB}) = \alpha = ?$

A) 25° B) 30° C) 35° D) 40° E) 50°

3.



ABCD paralelkenar (*parallelogram*)

$[DH] \perp [AB]$

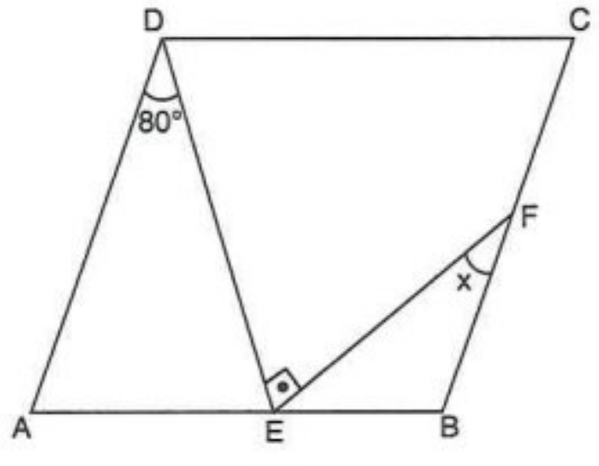
$m(\widehat{ADH}) = 2\alpha$

$m(\widehat{ABC}) = 5\alpha$

$\Rightarrow \alpha = ?$

A) 20° B) 30° C) 40° D) 50° E) 55°

4.



ABCD paralelkenar (*parallelogram*)

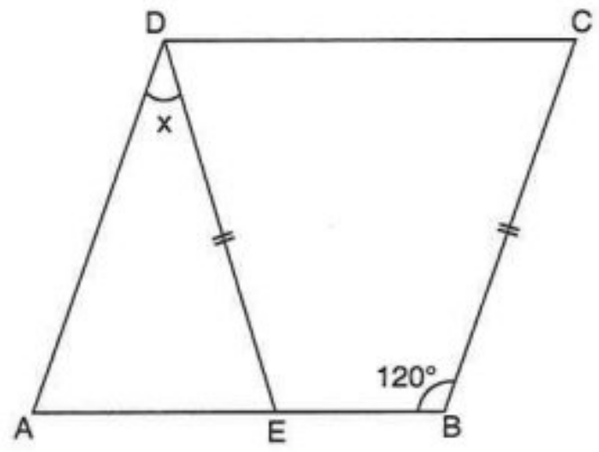
$[DE] \perp [EF]$

$m(\widehat{ADE}) = 80°$

$\Rightarrow m(\widehat{EFB}) = x = ?$

A) 5° B) 10° C) 15° D) 20° E) 25°

5.



ABCD paralelkenar (*parallelogram*)

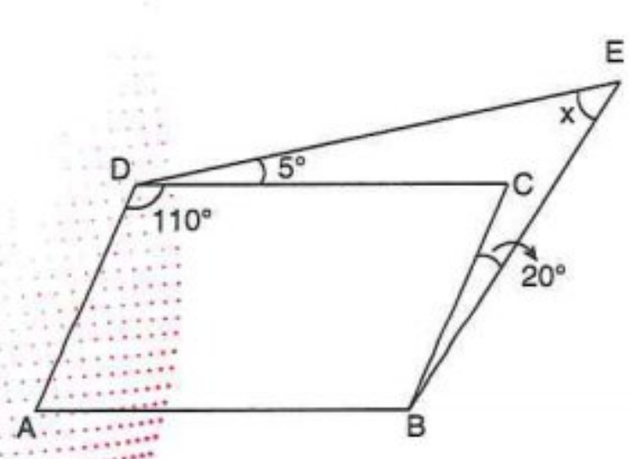
$|DE| = |BC|$

$m(\widehat{ABC}) = 120°$

$\Rightarrow m(\widehat{ADE}) = x = ?$

A) 40° B) 50° C) 60° D) 70° E) 80°

6.



ABCD paralelkenar (*parallelogram*)

$m(\widehat{ADC}) = 110°$

$m(\widehat{CBE}) = 20°$

$m(\widehat{EDC}) = 5°$

$\Rightarrow m(\widehat{DEB}) = x = ?$

A) 30° B) 36° C) 40° D) 45° E) 50°

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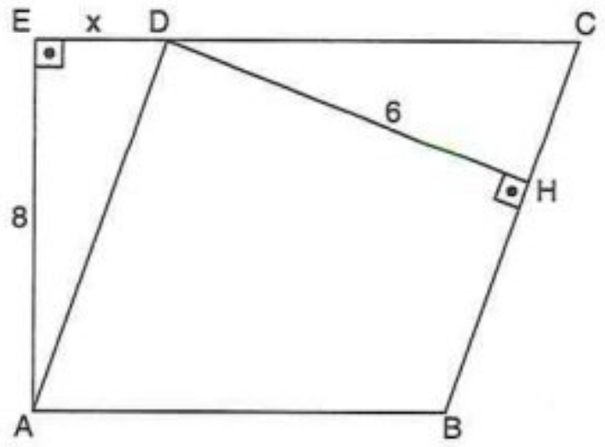
7.



ABCD paralelkenar (*parallelogram*)

$[AE] \perp [EC]$

$[DH] \perp [BC]$

$|DH| = 6$ br

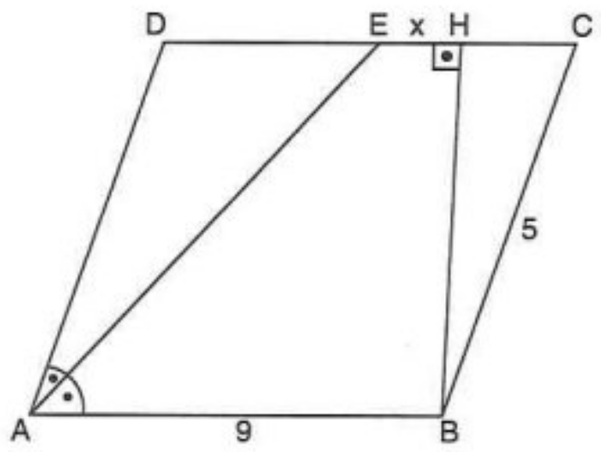
$|AE| = 8$ br

$|AB| = 9$ br

$\Rightarrow |ED| = x = ?$

A) 2 B) $2\sqrt{5}$ C) 6 D) $4\sqrt{5}$ E) $6\sqrt{5}$

8.



ABCD paralelkenar (*parallelogram*)

$m(\widehat{DAE}) = m(\widehat{EAB})$

$[BH] \perp [DC]$

$3|HC| = |DE|$

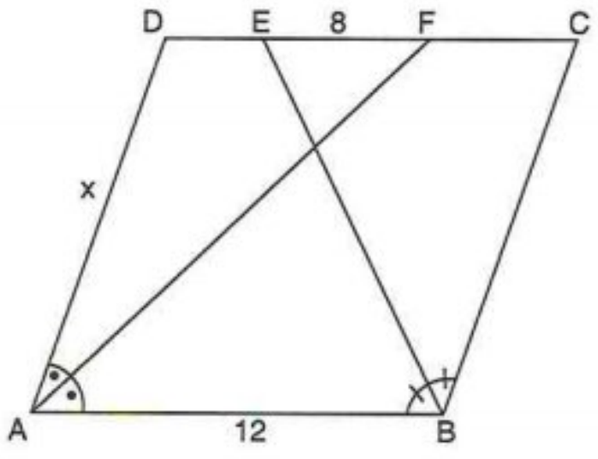
$|AB| = 9$ br

$|BC| = 5$ br

$\Rightarrow |EH| = x = ?$

A) $\frac{5}{3}$ B) $\frac{7}{3}$ C) 5 D) 6 E) 7

9.



ABCD paralelkenar (*parallelogram*)

$m(\widehat{DAF}) = m(\widehat{FAB})$

$m(\widehat{ABE}) = m(\widehat{EBC})$

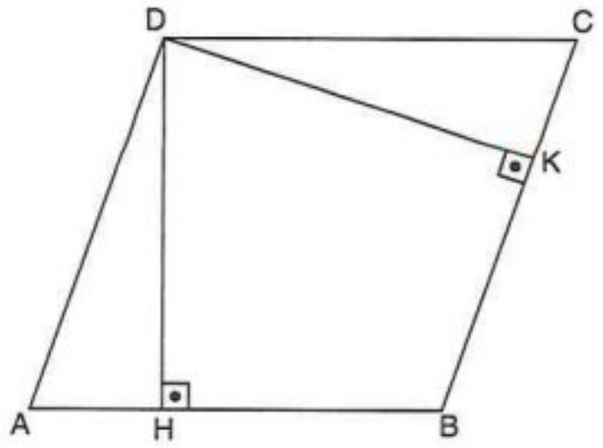
$|AB| = 12$ br

$|EH| = 8$ br

$\Rightarrow |AD| = x = ?$

A) 6 B) 8 C) 10 D) 12 E) 20

10.



ABCD paralelkenar (*parallelogram*)

$[DH] \perp [AB]$

$[DK] \perp [BC]$

$|DH| = 8$ br

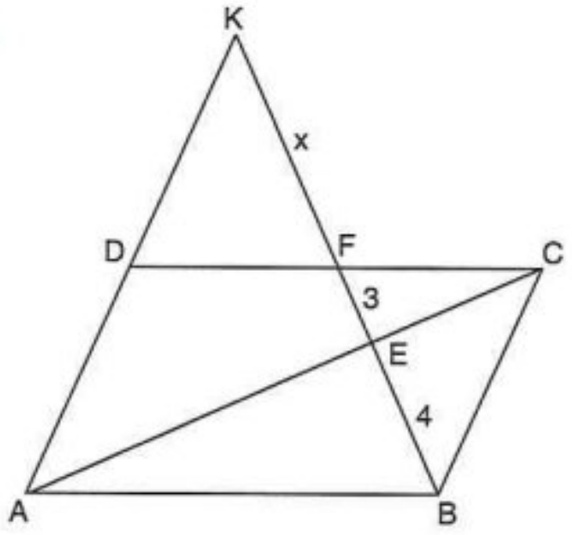
$|AB| = 10$ br

$|BC| = 20$ br

$\Rightarrow |DK| = ?$

A) 3 B) 4 C) 5 D) 6 E) 8

11.



ABCD paralelkenar (*parallelogram*)

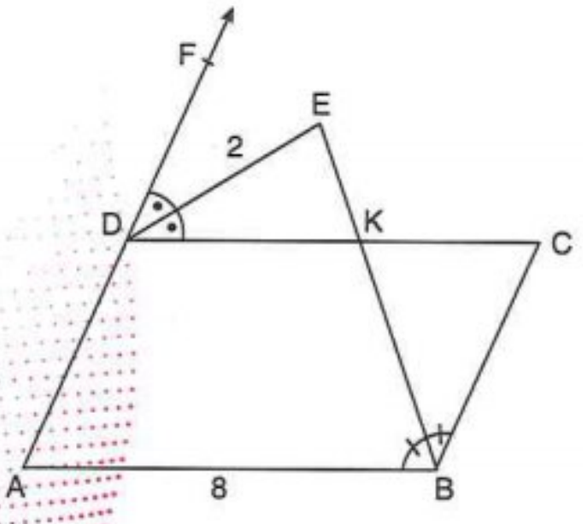
$|EF| = 3$ br

$|EB| = 4$ br

$\Rightarrow |KF| = x = ?$

A) $\frac{4}{7}$ B) $\frac{3}{5}$ C) 4 D) $\frac{3}{8}$ E) $\frac{7}{3}$

12.



ABCD paralelkenar (*parallelogram*)

$m(\widehat{FDE}) = m(\widehat{EDC})$

$m(\widehat{ABE}) = m(\widehat{EBC})$

$|AB| = 8$ br

$|AD| = 4$ br

$|DE| = 2$ br

$\Rightarrow |EK| = ?$

A) 3 B) $\sqrt{11}$ C) $\sqrt{17}$ D) $2\sqrt{3}$ E) 5

1. E	2. C	3. B	4. B	5. C	6. D
7. D	8. B	9. C	10. B	11. E	12. D

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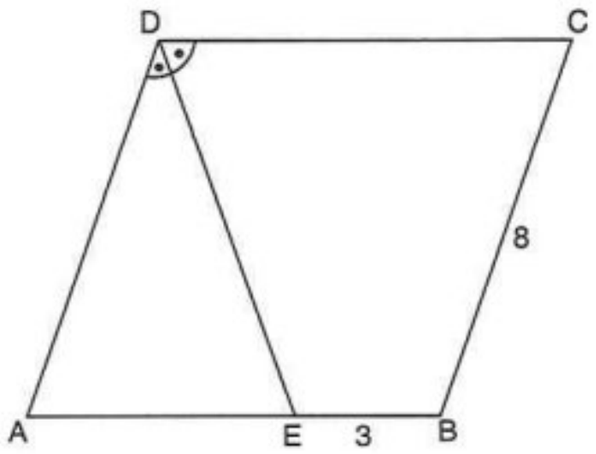
1.



ABCD paralelkenar (*parallelogram*)

$m(A\widehat{D}E) = m(E\widehat{D}C)$

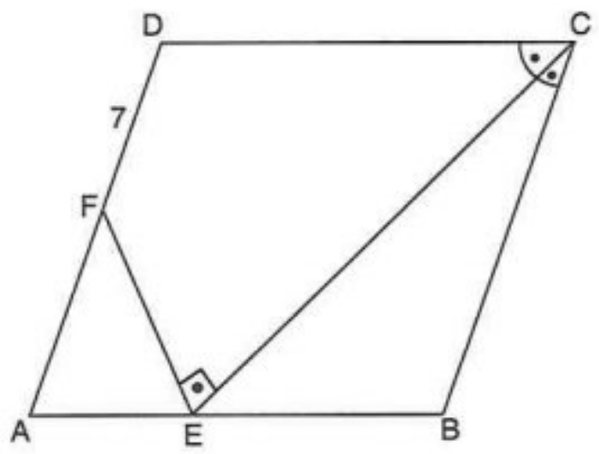
$|EB| = 3$ br

$|BC| = 8$ br

⇒ **Ç(ABCD) = ?**

A) 38 B) 36 C) 34 D) 32 E) 30

2.



ABCD paralelkenar (*parallelogram*)

$m(D\widehat{C}E) = m(E\widehat{C}B)$

$[EF] \perp [EC]$

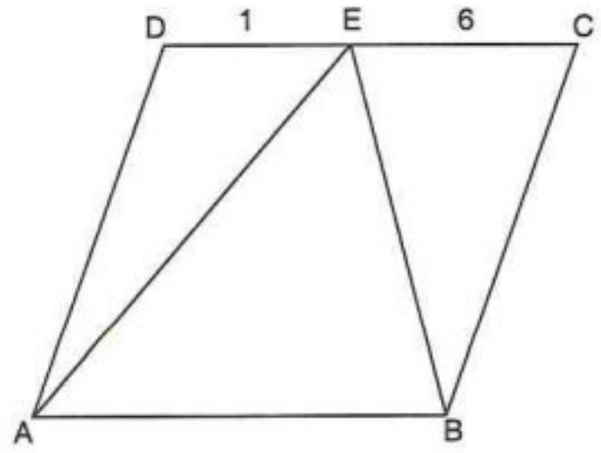
$|AF| = 4$ br

$|FD| = 7$ br

⇒ **Ç(ABCD) = ?**

A) 50 B) 52 C) 54 D) 56 E) 58

3.



ABCD paralelkenar (*parallelogram*)

$|AE| = |AB| = |EB|$

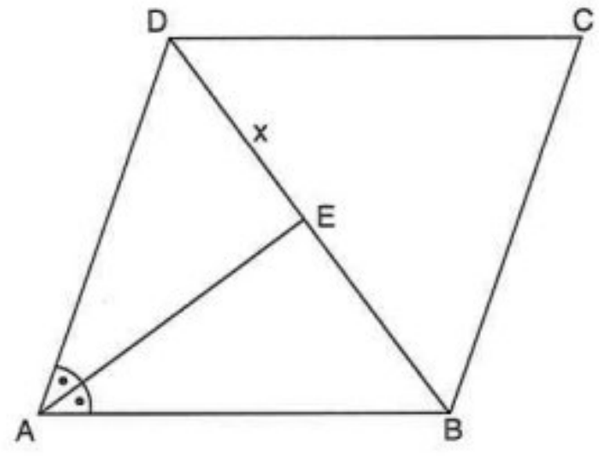
$|DE| = 1$ br

$|EC| = 6$ br

⇒ **$|AD| = x = ?$**

A) $2\sqrt{7}$ B) $\sqrt{43}$ C) $4\sqrt{5}$ D) $2\sqrt{13}$ E) $2\sqrt{5}$

4.



ABCD paralelkenar (*parallelogram*)

$m(D\widehat{A}E) = m(E\widehat{A}B)$

$|AD| = 6$ br

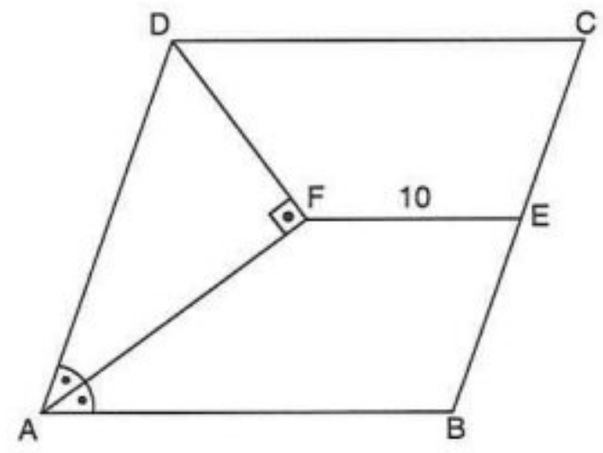
$|AB| = 12$ br

$|AE| = 2\sqrt{10}$ br

⇒ **$|DE| = x = ?$**

A) 4 B) 6 C) 7 D) 8 E) 10

5.



ABCD paralelkenar (*parallelogram*)

[AF] açıortay (bisector)

$[DF] \perp [AF]$

$[EF] \mathbin{/\!/} [AB]$

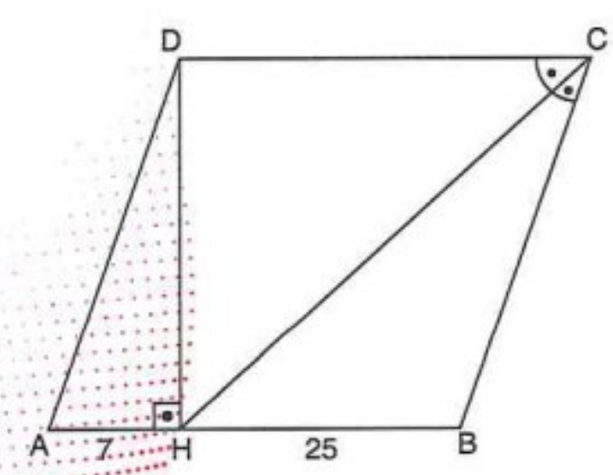
$|AB| = 14$ br

$|EF| = 10$ br

⇒ **$|EB| = ?$**

A) 2 B) 3 C) 4 D) 5 E) 6

6.



ABCD paralelkenar (*parallelogram*)

$[DH] \perp [AB]$

$m(D\widehat{C}H) = m(H\widehat{C}B)$

$|AH| = 7$ br

$|HB| = 25$ br

⇒ **$|HC| = ?$**

A) 20 B) 24 C) 32 D) 40 E) 45

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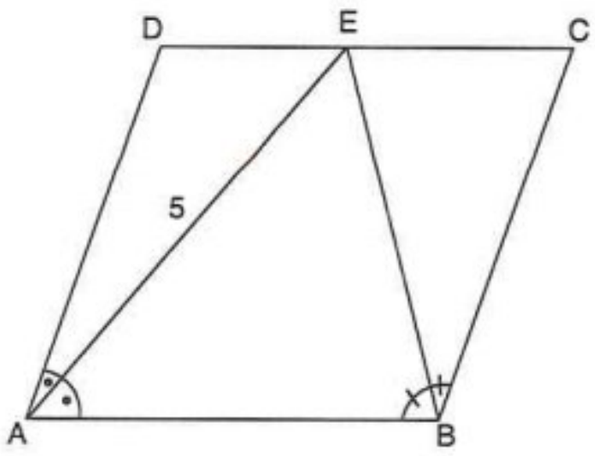
7.



ABCD paralelkenar (*parallelogram*)

$m(\widehat{DAE}) = m(\widehat{EAB})$

$m(\widehat{ABE}) = m(\widehat{EBC})$

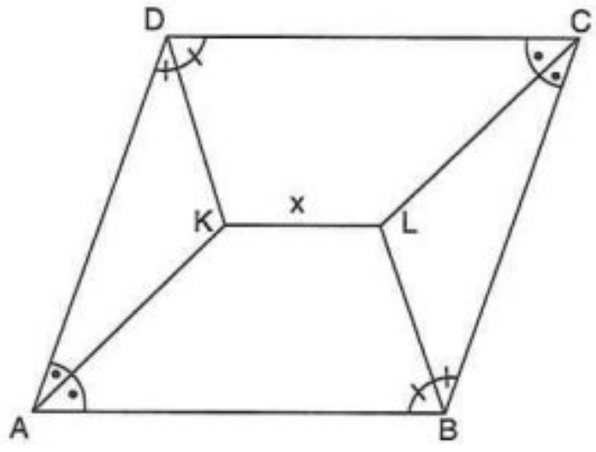
$|AE| = 5$ br

$|EB| = 12$ br

⇒ **Ç(ABCD) = ?**

A) 39 B) 40 C) 41 D) 42 E) 43

8.



ABCD paralelkenar (*parallelogram*)

[AK], [BL], [CL], [DK] açıortay (*bisector*)

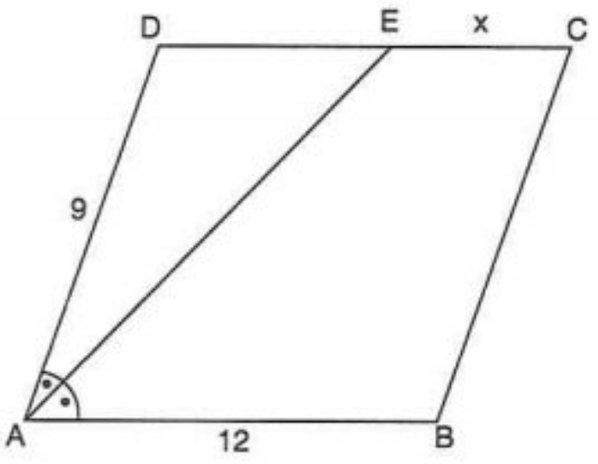
$|AB| = 30$ br

$|BC| = 14$ br

⇒ **$|KL| = x = ?$**

A) 16 B) 18 C) 20 D) 23 E) 24

9.



ABCD paralelkenar (*parallelogram*)

$m(\widehat{DAE}) = m(\widehat{EAB})$

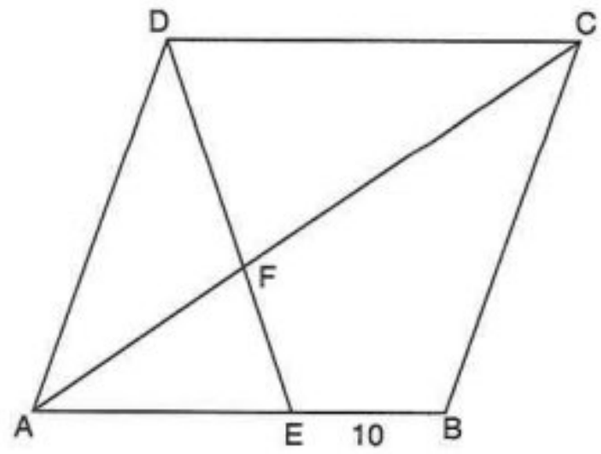
$|AD| = 9$ br

$|AB| = 12$ br

⇒ **$|EC| = x = ?$**

A) 1 B) 2 C) 3 D) 4 E) 5

10.



ABCD paralelkenar (*parallelogram*)

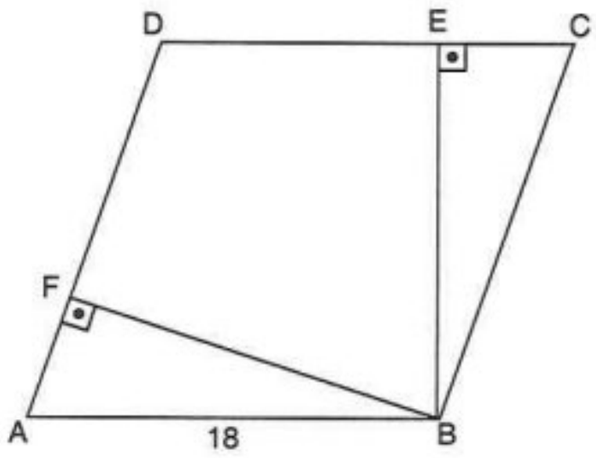
$|FC| = 3|AF|$

$|EB| = 10$ br

⇒ **$|DC| = ?$**

A) 12 B) 15 C) 18 D) 20 E) 25

11.



ABCD paralelkenar (*parallelogram*)

$[BF] \perp [AD]$

$[BE] \perp [DC]$

$|AB| = 18$ br

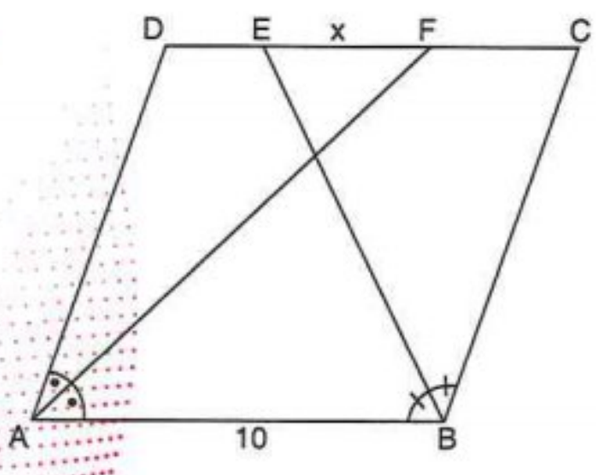
$|AD| = 12$ br

$|EC| = 6$ br

⇒ **$|BF| = ?$**

A) $6\sqrt{3}$ B) 9 C) $9\sqrt{3}$ D) $6\sqrt{5}$ E) 12

12.



ABCD paralelkenar (*parallelogram*)

$m(\widehat{DAF}) = m(\widehat{FAB})$

$m(\widehat{ABE}) = m(\widehat{EBC})$

$|AD| = 6$ br

$|AB| = 10$ br

⇒ **$|EF| = x = ?$**

A) 2 B) 3 C) 4 D) 5 E) 6

1. A	2. B	3. D	4. A	5. C	6. D
7. A	8. A	9. C	10. B	11. C	12. A

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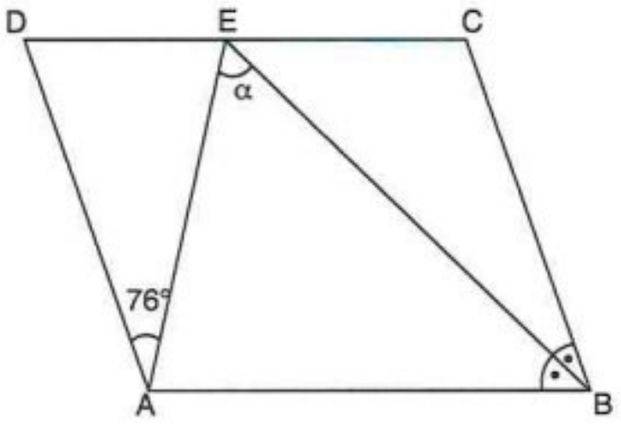
1.



ABCD paralelkenar (*parallelogram*)

$m(A\widehat{B}E) = m(E\widehat{B}C)$

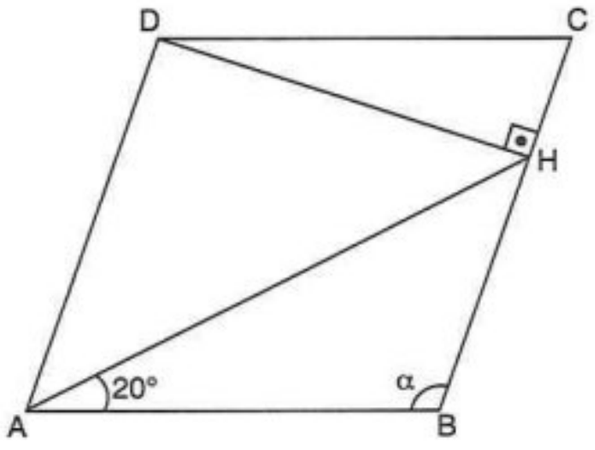
$|AE| = |BC|$

$m(D\widehat{A}E) = 76°$

⇒ **$m(A\widehat{E}B) = \alpha = ?$**

A) 100° B) 102° C) 105° D) 108° E) 110°

2.



ABCD paralelkenar (*parallelogram*)

$[DH] \perp [BC]$

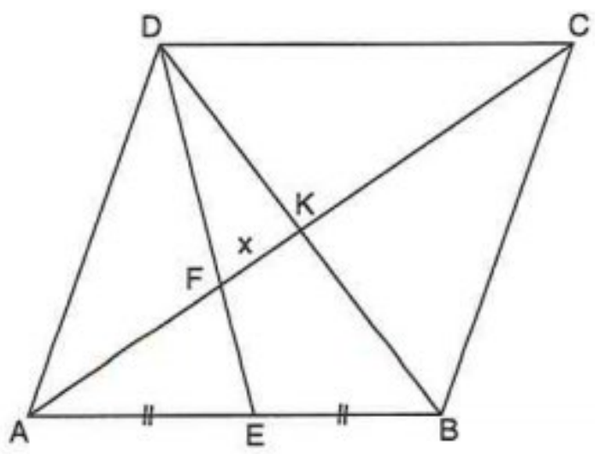
$|DH| = |BC|$

$m(H\widehat{A}B) = 20°$

⇒ **$m(A\widehat{B}C) = \alpha = ?$**

A) 135° B) 125° C) 120° D) 115° E) 110°

3.



ABCD paralelkenar (*parallelogram*)

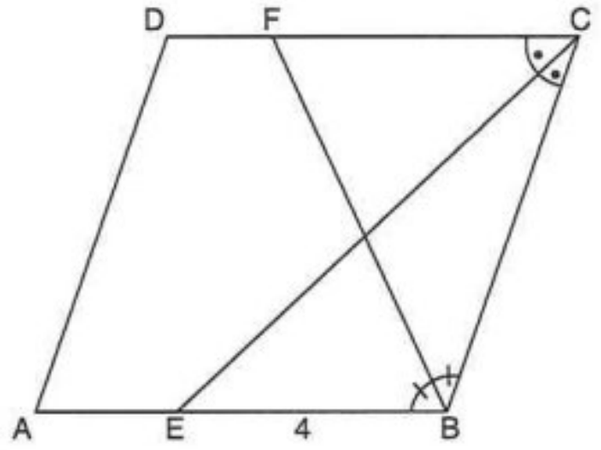
$|AE| = |EB|$

$|AC| = 12$ br

⇒ **$|FK| = x = ?$**

A) 1 B) $\frac{3}{2}$ C) 2 D) $\frac{5}{2}$ E) 3

4.



ABCD paralelkenar (*parallelogram*)

$m(D\widehat{C}E) = m(E\widehat{C}B)$

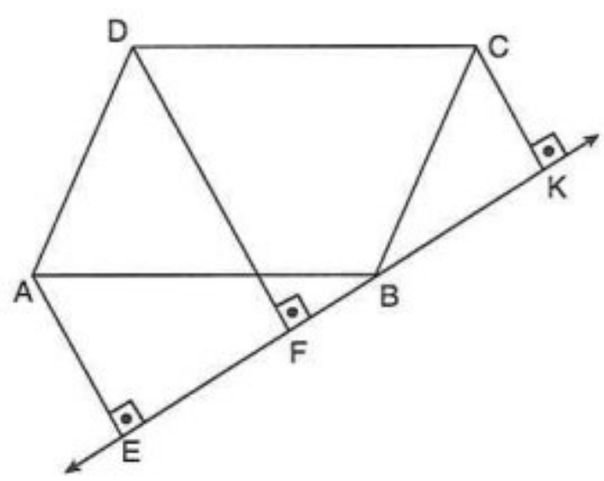
$m(E\widehat{B}F) = m(F\widehat{B}C)$

$|EB| = 2|DF| = 4$ br

⇒ **Ç(ABCD) = ?**

A) 10 B) 15 C) 18 D) 20 E) 24

5.



ABCD paralelkenar (*parallelogram*)

$[AE] \perp [EK]$

$[DF] \perp [EK]$

$[CK] \perp [EK]$

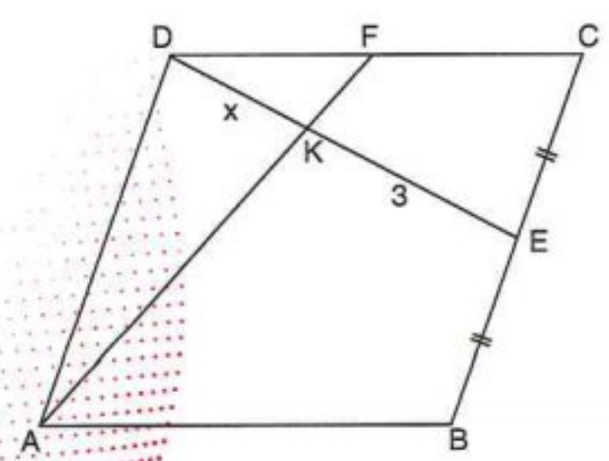
$|AE| = 4$ br

$|CK| = 5$ br

⇒ **$|DF| = ?$**

A) 1 B) 6 C) 7 D) 8 E) 9

6.



ABCD paralelkenar (*parallelogram*)

$|DF| = 2|FC|$

$|BE| = |EC|$

$|KE| = 3$ br

⇒ **$|DK| = x = ?$**

A) 5 B) 4 C) 3 D) 2 E) 1

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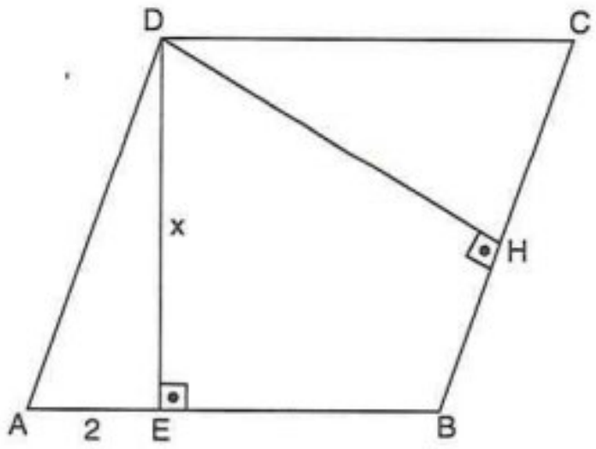
7.



ABCD paralelkenar (*parallelogram*)

$|DE| \perp |AB|$

$|DH| \perp |BC|$

$|BH| = |HC|$

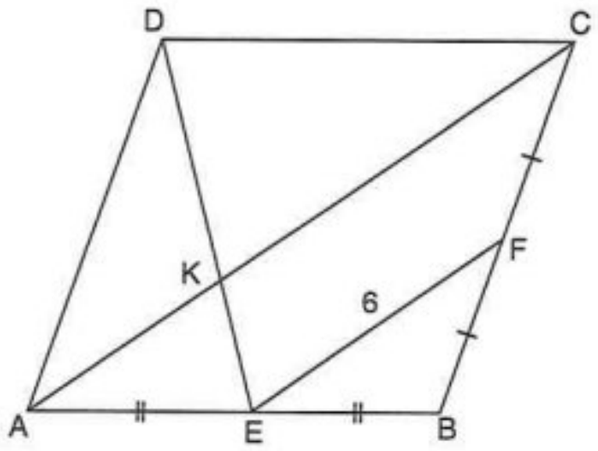
$|AE| = 2$ br

$|DC| = 10$ br

⇒ $|DE| = x = ?$

A) 4 B) 5 C) 6 D) 7 E) 8

8.



ABCD paralelkenar (*parallelogram*)

$|AE| = |EB|$

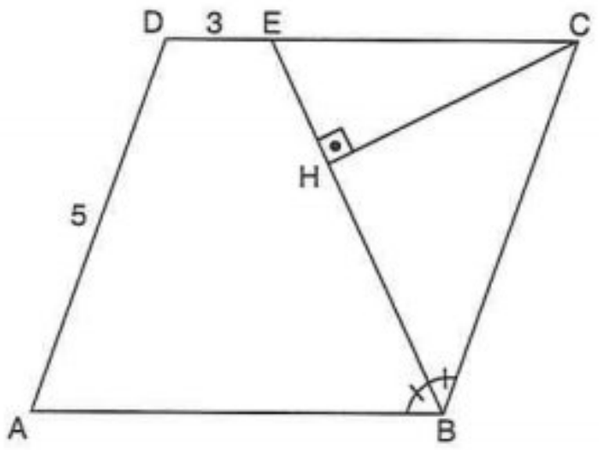
$|BF| = |FC|$

$|EF| = 6$ br

⇒ $|AK| = ?$

A) 2 B) $\frac{5}{2}$ C) 3 D) $\frac{7}{2}$ E) 4

9.



ABCD paralelkenar (*parallelogram*)

$m(\widehat{ABE}) = m(\widehat{EBC})$

$[CH] \perp [EB]$

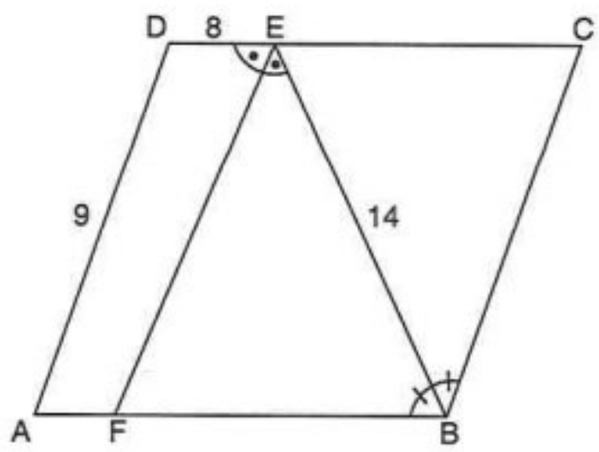
$|CH| = |DE| = 3$ br

$|AD| = 5$ br

⇒ **Ç(ABCD) = ?**

A) 20 B) 22 C) 24 D) 26 E) 28

10.



ABCD paralelkenar (*parallelogram*)

$m(\widehat{DEF}) = m(\widehat{FEB})$

$m(\widehat{AEB}) = m(\widehat{EBC})$

$|DE| = 8$ br

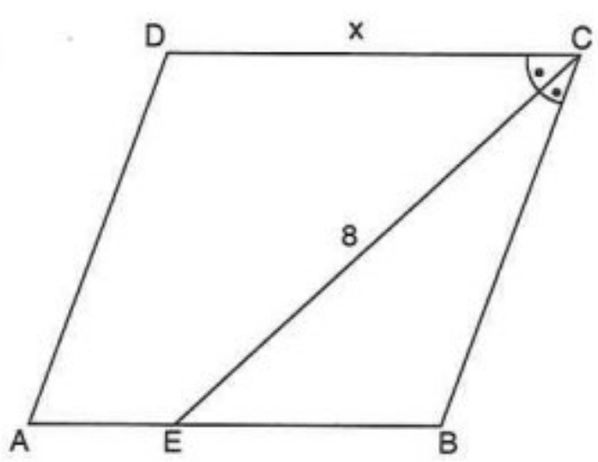
$|AD| = 9$ br

$|EB| = 14$ br

⇒ $|AF| = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

11.



ABCD paralelkenar (*parallelogram*)

$m(\widehat{DCE}) = m(\widehat{ECB})$

$|AE| = |EB|$

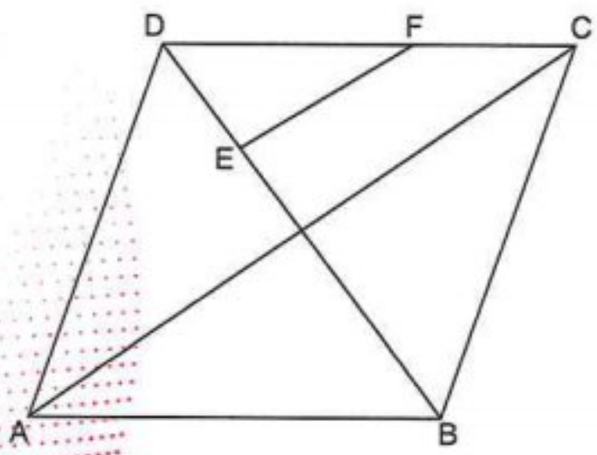
$|CE| = 8$ br

$A(ABCD) = 48$ br^2

⇒ $|DC| = x = ?$

A) 6 B) 8 C) 10 D) 12 E) 14

12.



ABCD paralelkenar (*parallelogram*)

$[EF] \mathbin{/\!/} [AC]$

$|DF| = 2|FC|$

⇒ $\frac{A(DEF)}{A(ABCD)} = ?$

A) $\frac{1}{9}$ B) $\frac{2}{3}$ C) $\frac{4}{9}$ D) $\frac{1}{3}$ E) $\frac{2}{9}$

1. B	2. D	3. C	4. D	5. E	6. C
7. C	8. E	9. D	10. B	11. C	12. A

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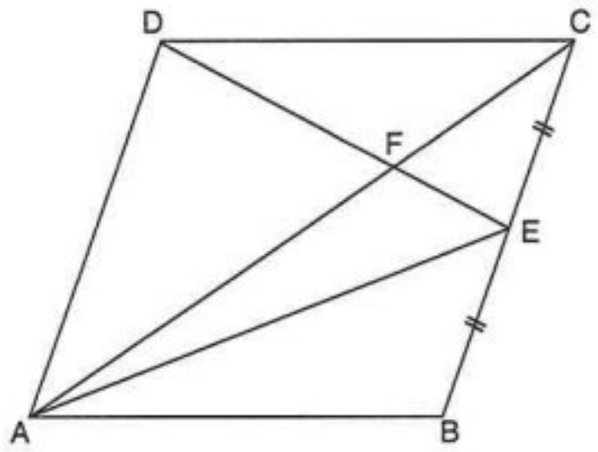
1.



ABCD paralelkenar (*parallelogram*)

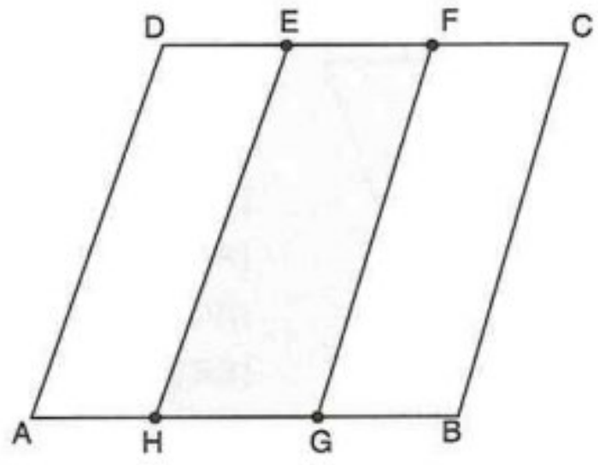
$|CE| = |EB|$

$|AF| = 2|FC|$

$\Rightarrow \dfrac{A(ABE)}{A(DAF)} = ?$

A) $\frac{2}{3}$ B) $\frac{1}{5}$ C) $\frac{3}{4}$ D) $\frac{1}{6}$ E) $\frac{3}{5}$

2.



ABCD paralelkenar (*parallelogram*)

$|AH| = |HG| = |GB|$

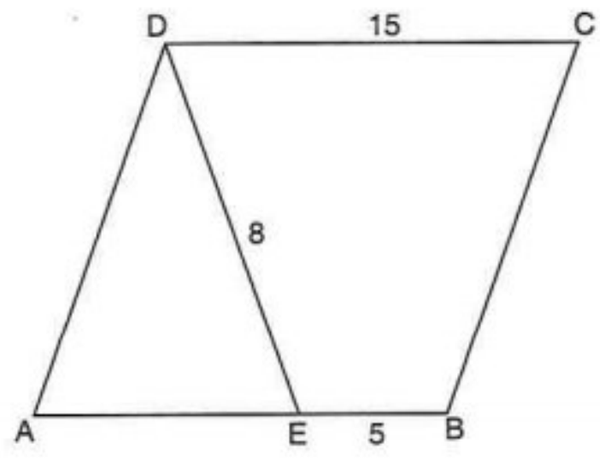
$3|DE| = 3|FC| = |EF|$

$A(ABCD) = 120\ br^2$

$\Rightarrow$ **A(HGFE) = ?**

A) 51 B) 52 C) 54 D) 55 E) 56

3.



ABCD paralelkenar (*parallelogram*)

$|EB| = 5$ br

$|BC| = 6$ br

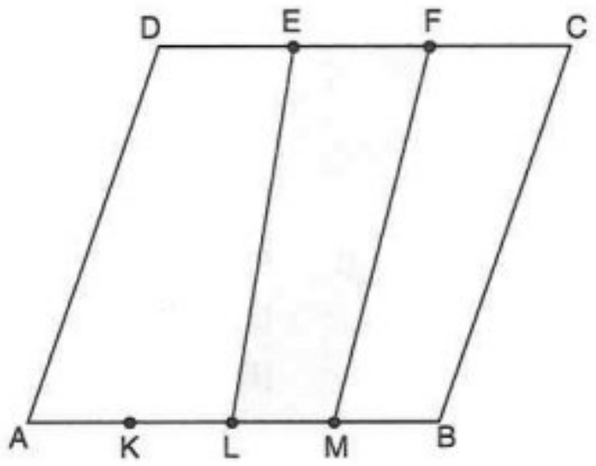
$|DE| = 8$ br

$|DC| = 15$ br

$\Rightarrow$ **A(ABCD) = ?**

A) 36 B) 54 C) 64 D) 72 E) 96

4.



ABCD paralelkenar (*parallelogram*)

$|DE| = |EF| = |FC|$

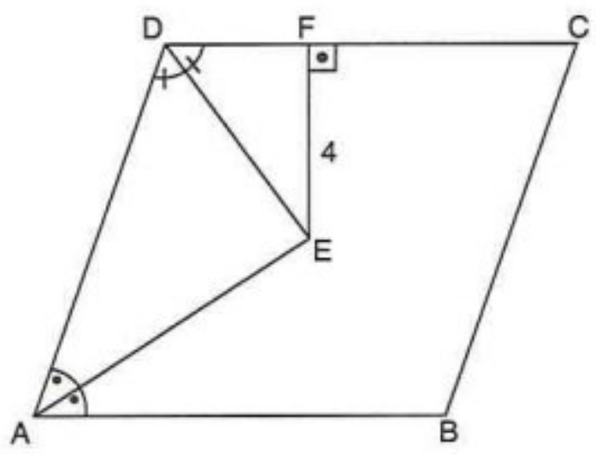
$|AK| = |KL| = |LM| = |MB|$

$A(LMFE) = 35\ br^2$

$\Rightarrow$ **A(ABCD) = ?**

A) 56 B) 100 C) 112 D) 120 E) 126

5.



ABCD paralelkenar (*parallelogram*)

$[EF] \perp [DC]$

$m(A\widehat{D}E) = m(E\widehat{D}C)$

$m(D\widehat{A}E) = m(E\widehat{A}B)$

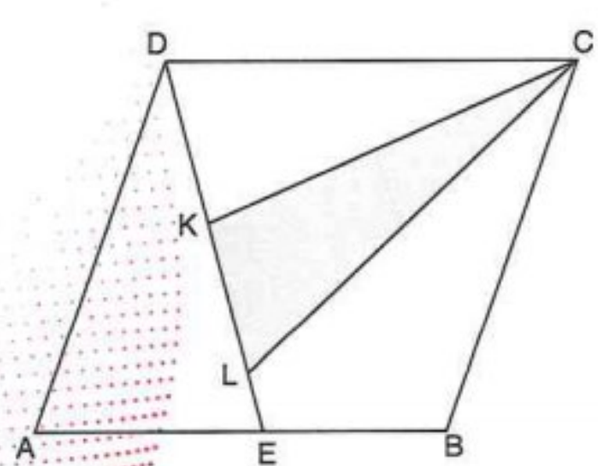
$|EF| = 4$ br

$|AB| = 8$ br

$\Rightarrow$ **A(ABCD) = ?**

A) 24 B) 32 C) 64 D) 96 E) 100

6.



ABCD paralelkenar (*parallelogram*)

$3|DE| = 5|KL|$

$|AE| = |EB|$

$A(ABCD) = 200\ br^2$

$\Rightarrow$ **A(CKL) = ?**

A) 30 B) 50 C) 60 D) 70 E) 80

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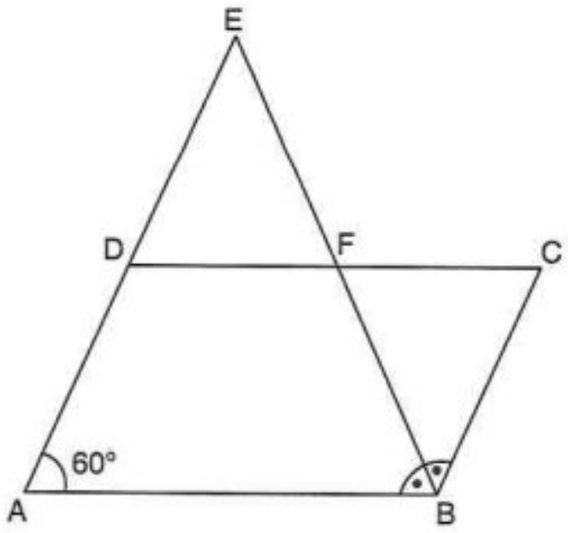
7.



ABCD paralelkenar (*parallelogram*)

[BE] açıortay (bisector)

$m(\widehat{EAB}) = 60°$

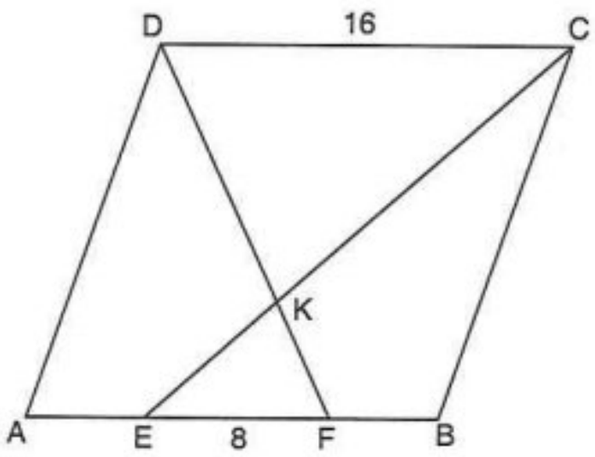
$|AB| = 6$ br

$|BC| = 2$ br

⇒ **A(EDF) = ?**

A) $\frac{\sqrt{3}}{2}$ B) $\frac{\sqrt{3}}{4}$ C) $\sqrt{3}$ D) $2\sqrt{3}$ E) $4\sqrt{3}$

8.



ABCD paralelkenar (*parallelogram*)

$|EF| = 8$ br

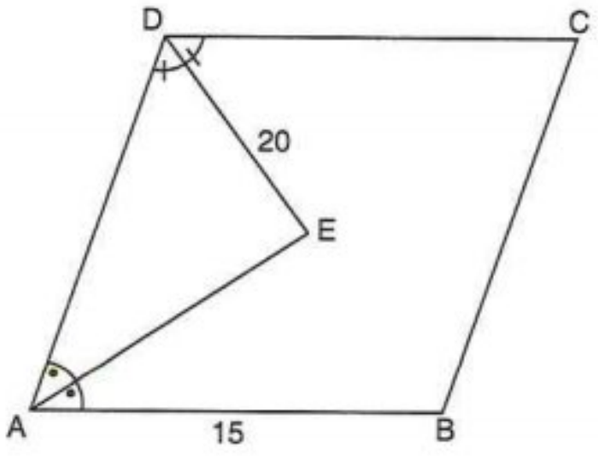
$|DC| = 16$ br

$A(EKF) = 24$ br^2

⇒ **A(ABCD) = ?**

A) 240 B) 252 C) 256 D) 272 E) 288

9.



ABCD paralelkenar (*parallelogram*)

$m(\widehat{DAE}) = m(\widehat{EAB})$

$m(\widehat{ADE}) = m(\widehat{EDC})$

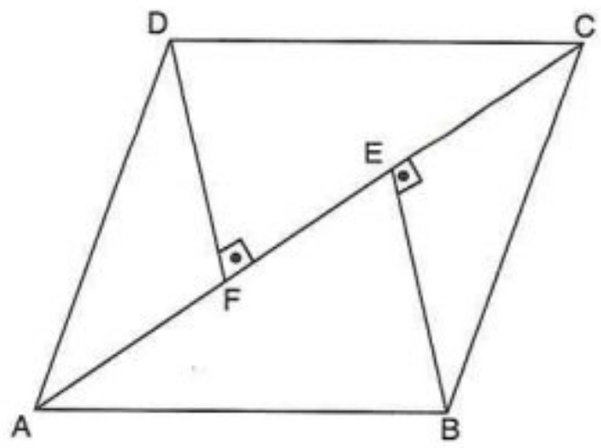
$|DE| = 20$ br

$|AB| = |AE| = 15$ br

⇒ **A(ABCD) = ?**

A) 120 B) 180 C) 240 D) 320 E) 360

10.



ABCD paralelkenar (*parallelogram*)

$[DF] \perp [AC]$

$[BE] \perp [AC]$

$|EB| = 4$ br

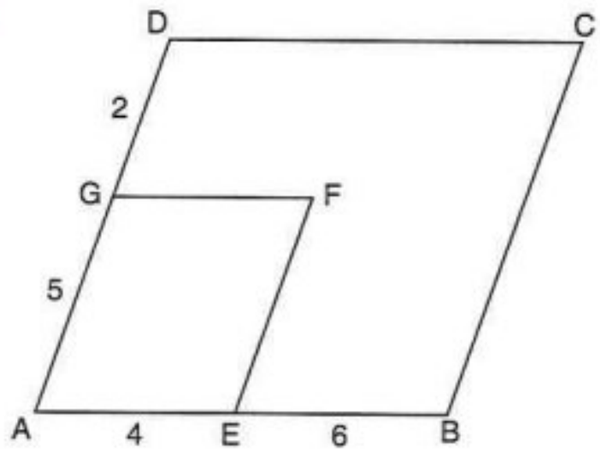
$|BC| = 5$ br

$|EF| = 6$ br

⇒ **A(ABCD) = ?**

A) 24 B) 36 C) 48 D) 54 E) 60

11.



ABCD, AEFG paralelkenar (*parallelogram*)

$|DG| = 2$ br

$|AE| = 4$ br

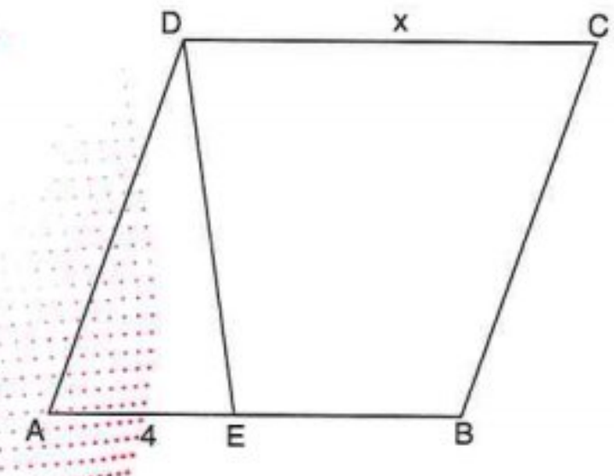
$|AG| = 5$ br

$|EB| = 6$ br

⇒ $\frac{\mathbf{A(AEFG)}}{\mathbf{A(ABCD)}} = ?$

A) $\frac{2}{7}$ B) $\frac{3}{7}$ C) $\frac{4}{7}$ D) $\frac{2}{5}$ E) $\frac{2}{3}$

12.



ABCD paralelkenar (*parallelogram*)

$|AE| = 4$ br

$A(ABCD) = 6 \cdot A(AED)$

⇒ **|DC| = x = ?**

A) 5 B) 6 C) 8 D) 10 E) 12

1. C	2. E	3. D	4. D	5. C	6. C
7. E	8. E	9. E	10. C	11. A	12. E

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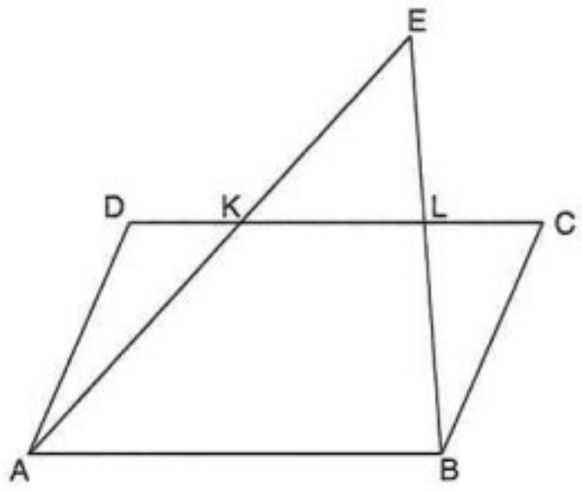
1.



ABCD paralelkenar (*parallelogram*)

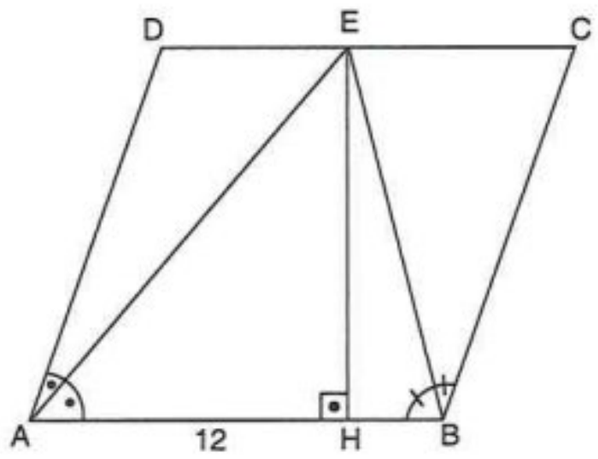
A(EKL) = 3 br²

A(ABLK) = 9 br²

⇒ **A(ABCD) = ?**

A) 8 B) 10 C) 12 D) 14 E) 16

2.



ABCD paralelkenar (*parallelogram*)

[EH] ⊥ [AB]

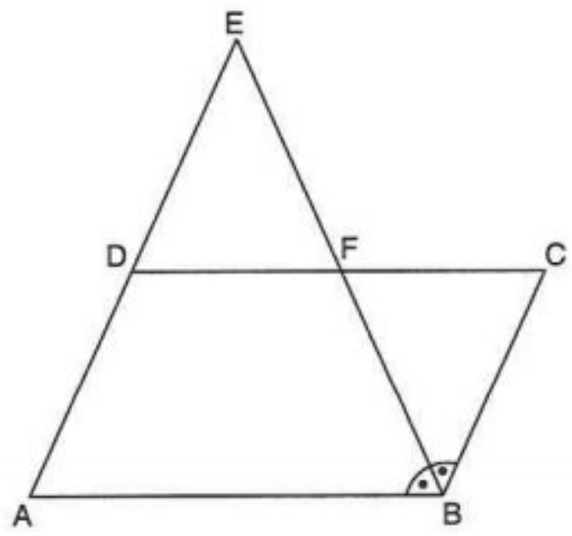
[AE], [BE] açıortay (*bisector*)

4 | HB | = | AH | = 12 br

⇒ **A(ABCD) = ?**

A) 86 B) 72 C) 90 D) 96 E) 100

3.



ABCD paralelkenar (*parallelogram*)

m(A$\widehat{B}$E) = m(E$\widehat{B}$C)

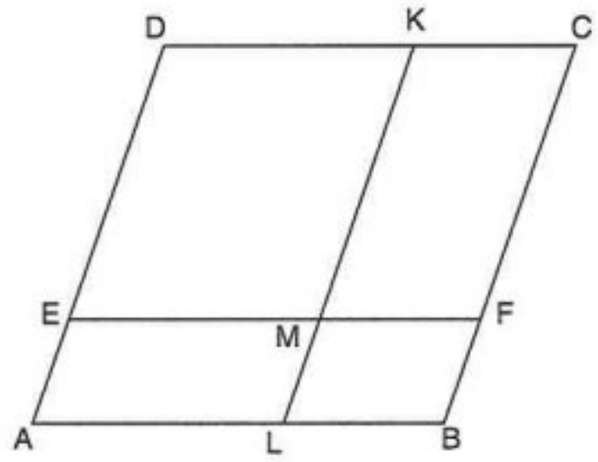
| ED | = 2 br

| AD | = 4 br

⇒ **Ç(ABCD) = ?**

A) 20 B) 24 C) 28 D) 32 E) 36

4.



[AB] // [EF] // [DC]

[AD] // [KL] // [BC]

A(LBFM) = 2 br²

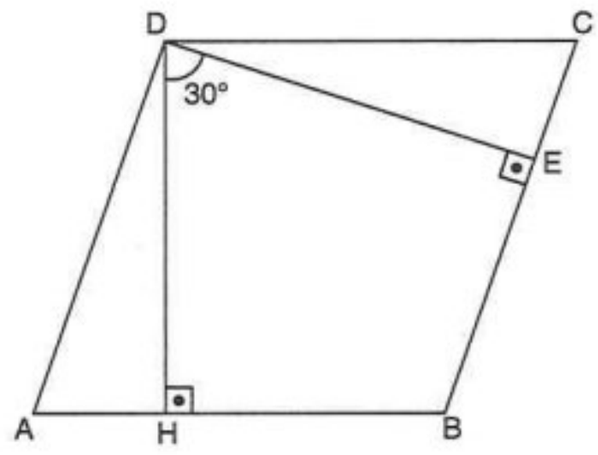
A(MFCK) = 5 br²

A(ALME) = 6 br²

⇒ **A(ABCD) = ?**

A) 20 B) 24 C) 26 D) 28 E) 30

5.



ABCD paralelkenar (*parallelogram*)

[DH] ⊥ [AB]

[DE] ⊥ [BC]

m(H$\widehat{D}$E) = 30°

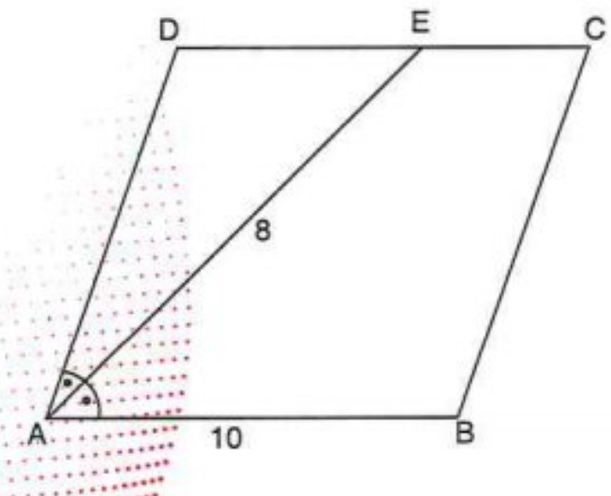
| DH | = 8 br

| DE | = 9 br

⇒ **A(ABCD) = ?**

A) 96 B) 108 C) 112 D) 144 E) 156

6.



ABCD paralelkenar (*parallelogram*)

m(D$\widehat{A}$E) = m(E$\widehat{A}$B)

| AE | = 8 br

2 | AD | = | AB | = 10 br

⇒ **A(ABCD) = ?**

A) 16 B) 24 C) 36 D) 48 E) 54

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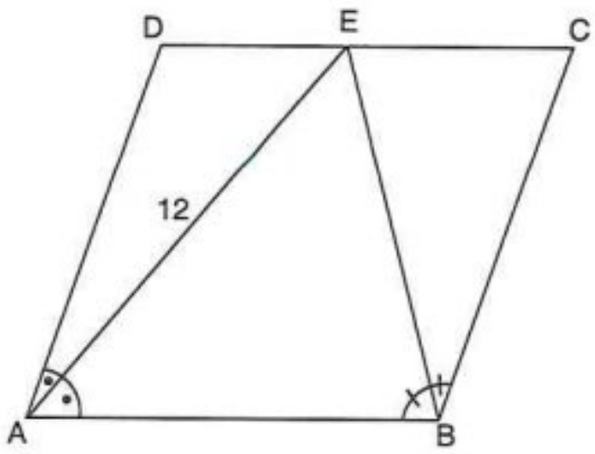
7.



ABCD paralelkenar (*parallelogram*)

$m(\widehat{DAE}) = m(\widehat{EAB})$

$m(\widehat{ABE}) = m(\widehat{EBC})$

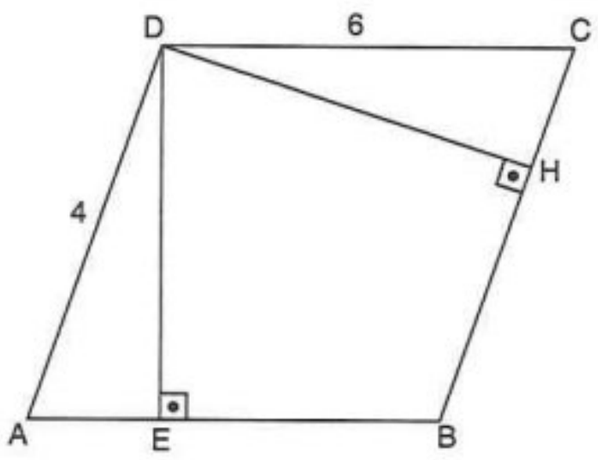
$|AE| = 12$ br

$|AB| = 15$ br

⇒ **A(ABCD) = ?**

A) 92 B) 96 C) 100 D) 108 E) 116

8.



ABCD paralelkenar (*parallelogram*)

$[DE] \perp [AB]$

$[DH] \perp [BC]$

$m(\widehat{EDH}) = 30°$

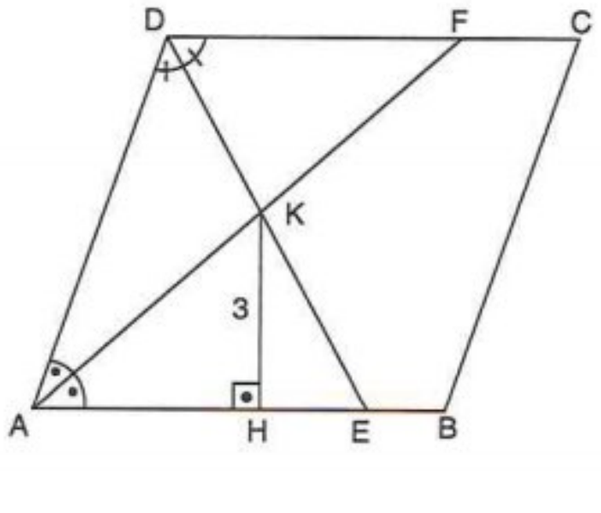
$|AD| = 4$ br

$|DC| = 6$ br

⇒ **A(ABCD) = ?**

A) 12 B) 14 C) 16 D) 18 E) 24

9.



ABCD paralelkenar (*parallelogram*)

$m(\widehat{DAF}) = m(\widehat{FAB})$

$m(\widehat{ADE}) = m(\widehat{EDC})$

$[KH] \perp [AB]$

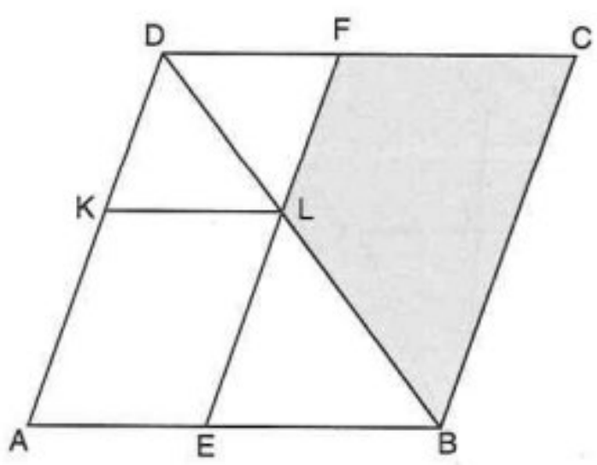
$|KH| = 3$ br

$|DC| = 10$ br

⇒ **A(ABCD) = ?**

A) 30 B) 40 C) 45 D) 50 E) 60

10.



$[AB] /\!/ [KL] /\!/ [DC]$

$[AD] /\!/ [EF] /\!/ [BC]$

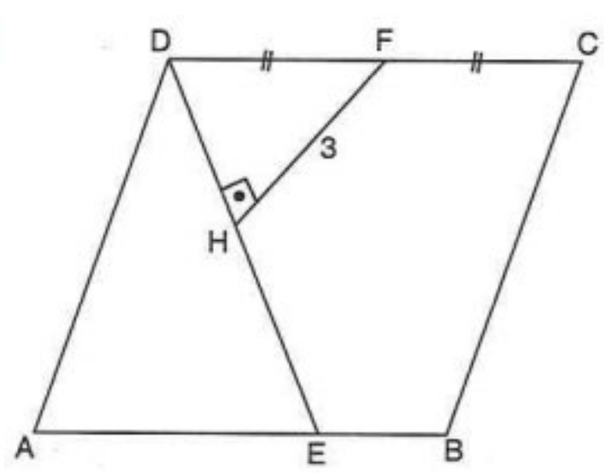
$A(DKL) = 9$ br²

$A(AELK) = 12$ br²

⇒ **A(LBCF) = ?**

A) 15 B) 16 C) 18 D) 24 E) 32

11.



ABCD paralelkenar (*parallelogram*)

$[FH] \perp [DE]$

$|DF| = |FC|$

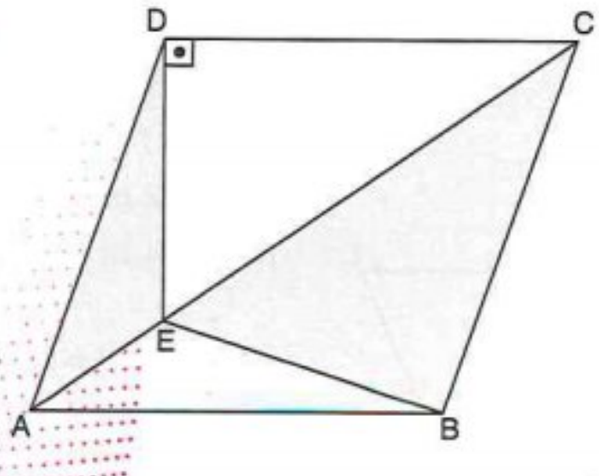
$|FH| = 3$ br

$|DE| = 8$ br

⇒ **A(ABCD) = ?**

A) 24 B) 36 C) 42 D) 48 E) 54

12.



ABCD paralelkenar (*parallelogram*)

$[ED] \perp [DC]$

$3|AE| = |EC|$

$|DE| = 6$ br

$|DC| = 10$ br

⇒ **A(ADE) + A(EBC) = ?**

A) 30 B) 40 C) 50 D) 70 E) 80

1. C	2. C	3. A	4. D	5. D	6. D
7. D	8. A	9. E	10. B	11. D	12. B

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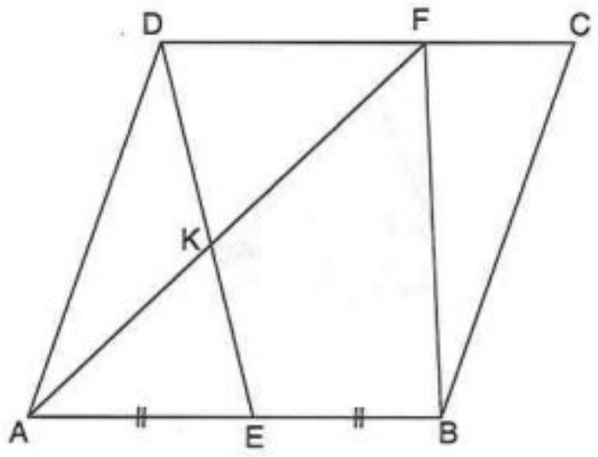
1.



ABCD paralelkenar (*parallelogram*)

$|DF| = 3|FC|$

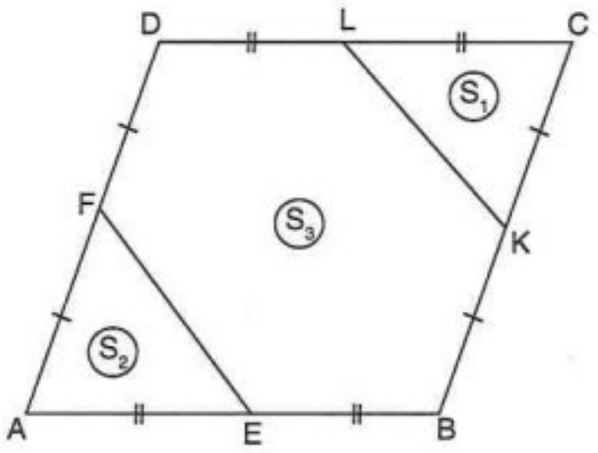
$|AE| = |EB|$

$A(ABCD) = 80\ br^2$

⇒ **A(EBFK) = ?**

A) 32 B) 28 C) 24 D) 20 E) 16

2.



ABCD paralelkenar (*parallelogram*)

$|AE| = |EB| = |DL|$

$|DL| = |LC|$

$|AF| = |FD| = |BK|$

$|BK| = |KC|$

$A(LKC) = S_1$

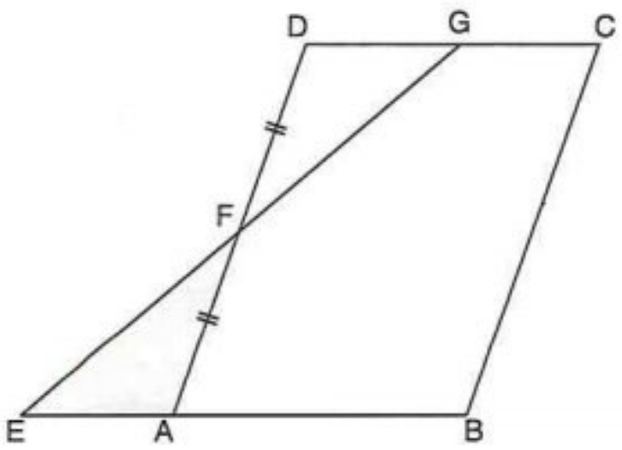
$A(AEF) = S_2$

$A(EBKLDF) = S_3$

$\Rightarrow \dfrac{S_1 + S_2}{S_3} = ?$

A) $\frac{1}{2}$ B) $\frac{2}{3}$ C) $\frac{1}{3}$ D) $\frac{1}{4}$ E) $\frac{1}{5}$

3.



ABCD paralelkenar (*parallelogram*)

$|AF| = |FD|$

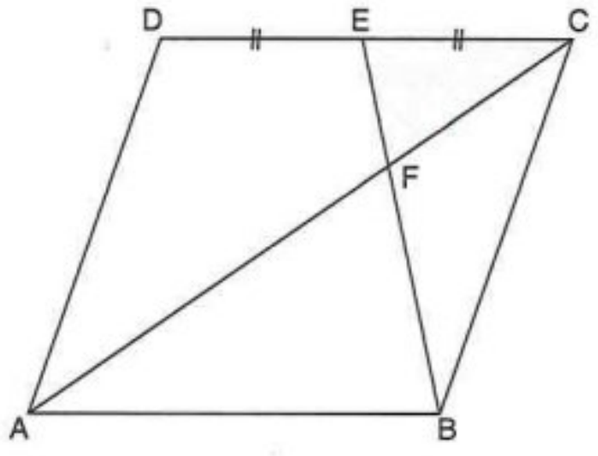
$|DG| = |GC|$

$A(ABCD) = 100\ br^2$

⇒ **A(FEA) = ?**

A) 10 B) $\frac{25}{2}$ C) 15 D) $\frac{35}{2}$ E) 20

4.



ABCD paralelkenar (*parallelogram*)

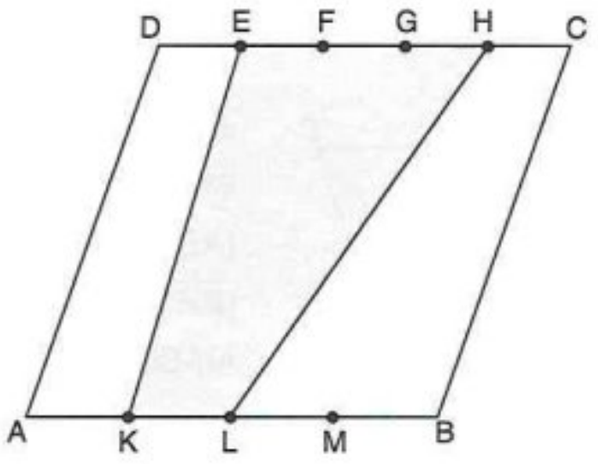
$|DE| = |EC|$

$A(ABCD) = 60\ br^2$

⇒ **A(EFC) = ?**

A) 2 B) 3 C) 4 D) 5 E) 6

5.



ABCD paralelkenar (*parallelogram*)

$|DE| = |EF| = |FG|$

$|FG| = |GH| = |HC|$

$|AK| = |KL| = |LM|$

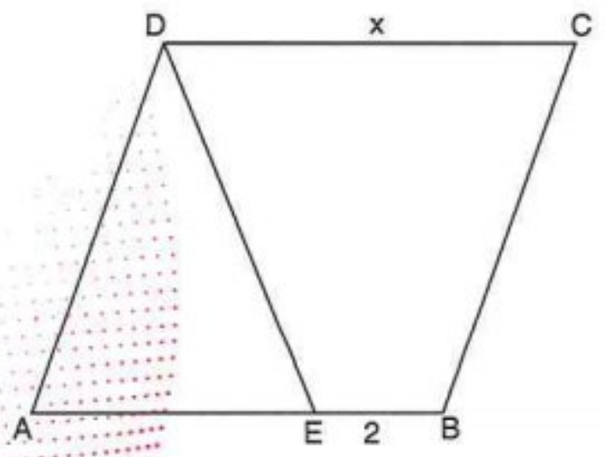
$|LM| = |MB|$

$A(ABCD) = 120\ br^2$

⇒ **A(KLHE) = ?**

A) 34 B) 38 C) 45 D) 49 E) 51

6.



ABCD paralelkenar (*parallelogram*)

$|EB| = 2\ br$

$A(ADE) = 40\ br^2$

$A(EBCD) = 50\ br^2$

⇒ **|DC| = x = ?**

A) 10 B) 12 C) 14 D) 16 E) 18

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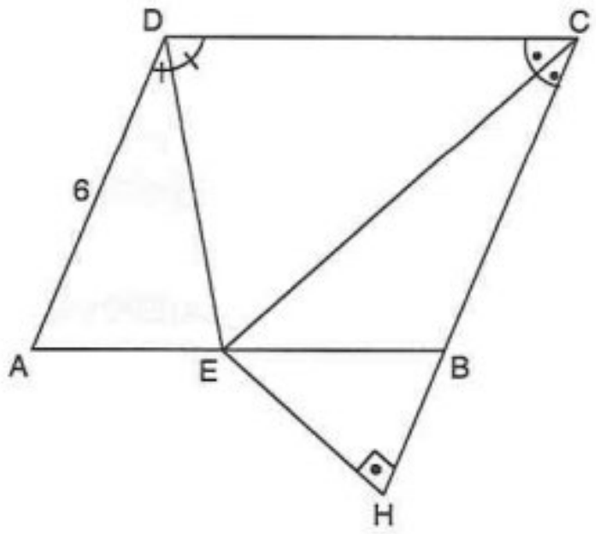
7.



ABCD paralelkenar (*parallelogram*)

$[EH] \perp [HC]$

$m(\widehat{ADE}) = m(\widehat{EDC})$

$m(\widehat{DCE}) = m(\widehat{ECH})$

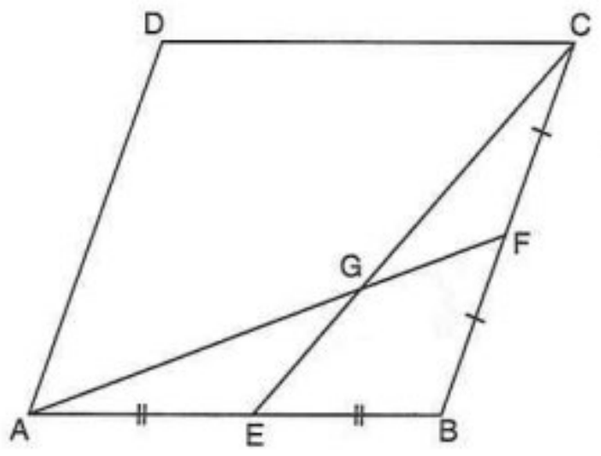
$|AD| = 6$ br

$|EH| = 8$ br

⇒ **A(ADE) = ?**

A) 24 B) 28 C) 32 D) 36 E) 40

8.



ABCD paralelkenar (*parallelogram*)

$|AE| = |EB|$

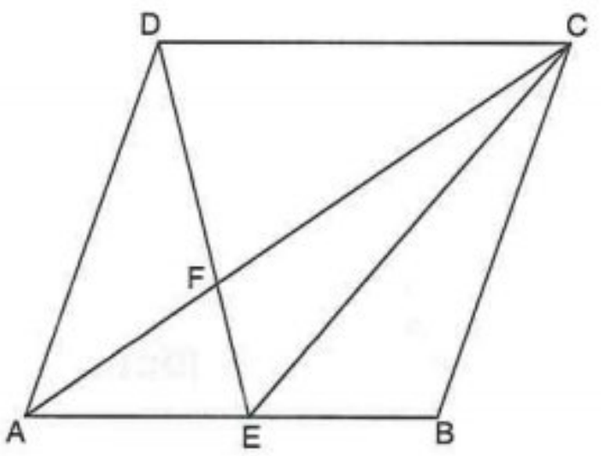
$|BF| = |FC|$

$A(ABCD) = 120$ br^2

⇒ **A(EBFG) = ?**

A) 10 B) 20 C) 30 D) 40 E) 45

9.



ABCD paralelkenar (*parallelogram*)

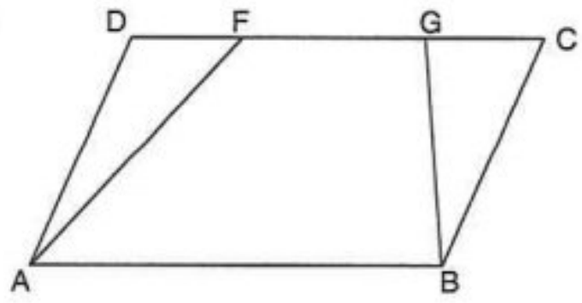
$A(FAE) = 6$ br^2

$A(CEB) = 12$ br^2

⇒ **A(DAF) = ?**

A) $3\sqrt{3}$ B) 6 C) $6\sqrt{3}$ D) 9 E) $9\sqrt{3}$

10.



ABCD paralelkenar (*parallelogram*)

$A(DAF) = 12$ br^2

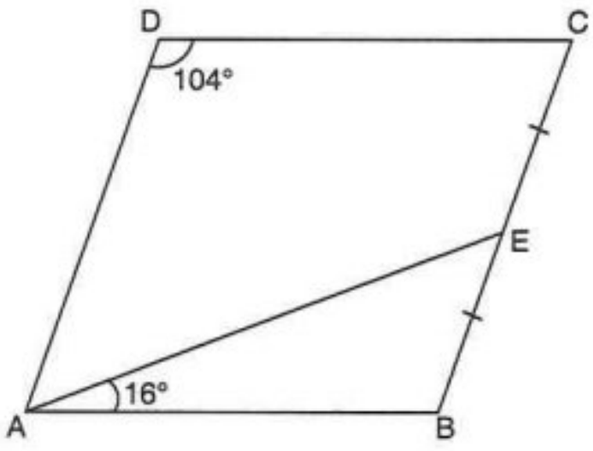
$A(GBC) = 16$ br^2

$A(ABGF) = 32$ br^2

$$\Rightarrow \frac{|AB|}{|FG|} = ?$$

A) 12 B) 13 C) 14 D) 15 E) 16

11.



ABCD paralelkenar (*parallelogram*)

$m(\widehat{EAB}) = 16°$

$m(\widehat{ADC}) = 104°$

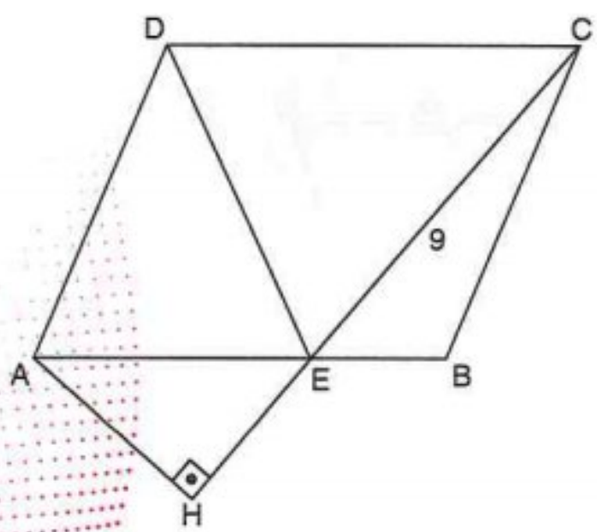
$|BE| = |EC| = 6$ br

$|AE| = 12$ br

⇒ **A(ABCD) = ?**

A) $33\sqrt{3}$ B) $44\sqrt{3}$ C) $48\sqrt{3}$ D) $54\sqrt{3}$ E) $72\sqrt{3}$

12.



ABCD paralelkenar (*parallelogram*)

$[AH] \perp [HC]$

$|AE| = |EB|$

$|AE| = 5$ br

$|EC| = 9$ br

$|HE| = 3$ br

⇒ **A(DEC) = ?**

A) 36 B) 45 C) 54 D) 56 E) 60

1. A	2. C	3. B	4. D	5. E	6. E
7. A	8. B	9. C	10. D	11. E	12. A

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EŞKENAR DÖRTGEN
RHOMBUS

KONU KAVRAMA TESTİ
Thread Grip Test

ZİHİN HARİTASI
Mind Map

2
TEST
Tests

36
SORU
Questions

ANER YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS

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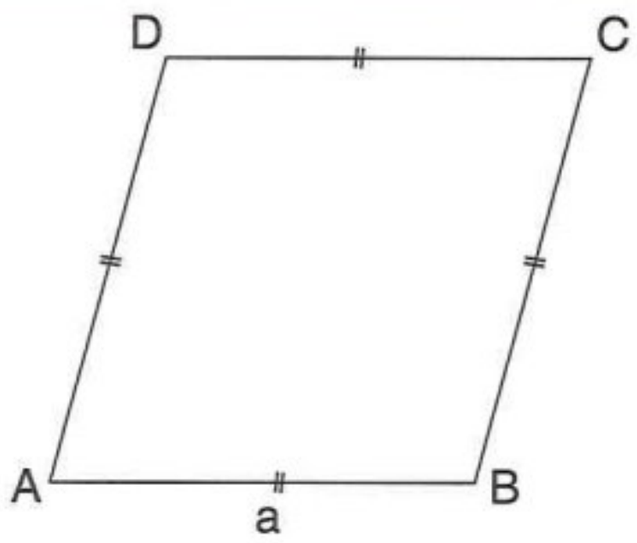
EŞKENAR DÖRTGEN
RHOMBUS

CANER eğitim kurumları

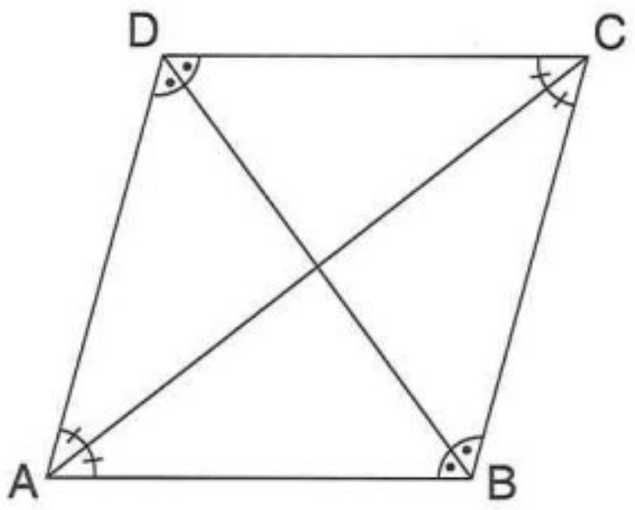
1.



$|AB| = |BC| = |CD| = |AD|$

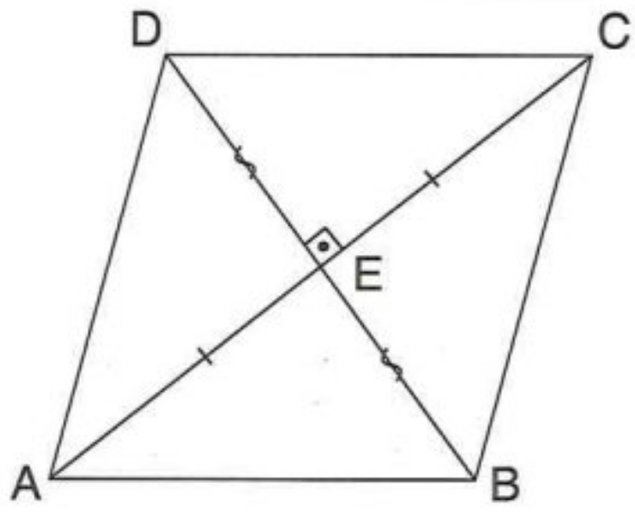
$Ç(ABCD) = 4a$

2.



[AC], [BD] açıortay (bisector)

3.



$[AC] \perp [BD]$

$|AE| = |EC|$

$|BE| = |ED|$

$A(ABCD) = \frac{1}{2} |AC| \cdot |BD|$

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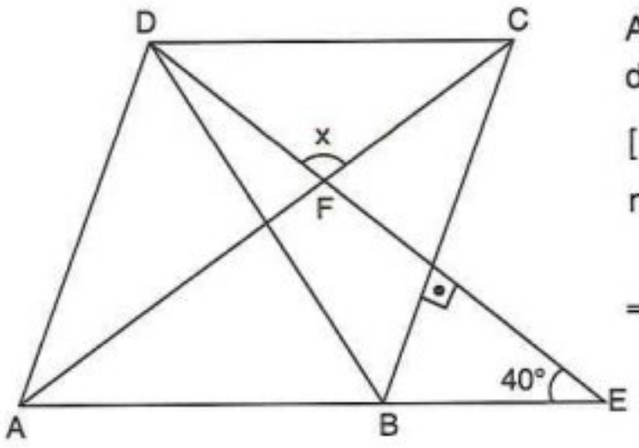
1.



ABCD eşkenar dörtgen (*rhombus*)

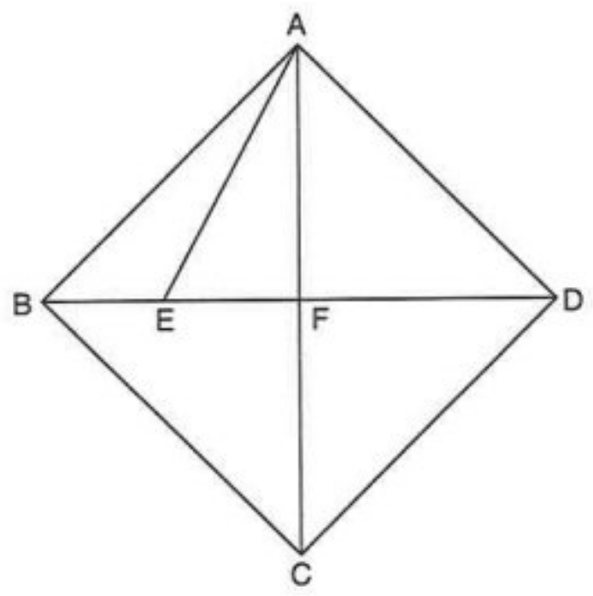
$[DE] \perp [BC]$

$m(A\widehat{E}D) = 40°$

$\Rightarrow$ **$m(D\widehat{F}C) = ?$**

A) 100° B) 105° C) 110° D) 115° E) 120°

2.



ABCD eşkenar dörtgen (*rhombus*)

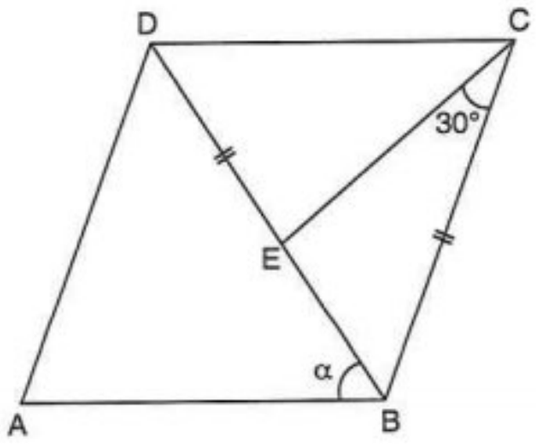
$m(B\widehat{A}E) = 30°$

$|AD| = |DE|$

$\Rightarrow$ **$m(E\widehat{A}C) = ?$**

A) 20° B) 25° C) 30° D) 35° E) 40°

3.



ABCD eşkenar dörtgen (*rhombus*)

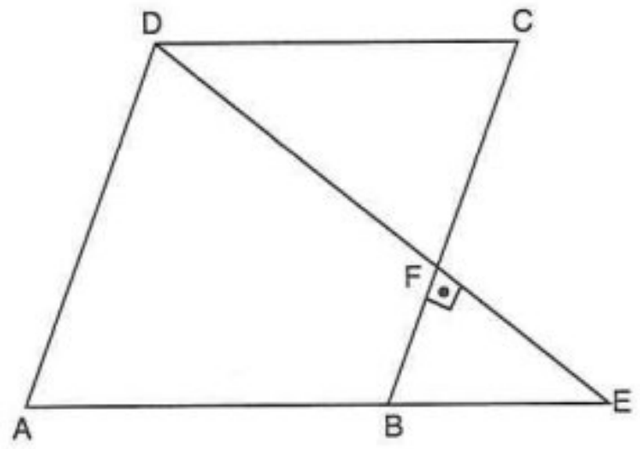
$|DE| = |BC|$

$m(E\widehat{C}B) = 30°$

$\Rightarrow$ **$m(A\widehat{B}D) = \alpha = ?$**

A) 30° B) 40° C) 50° D) 60° E) 70°

4.



ABCD eşkenar dörtgen (*rhombus*)

$[DE] \perp [BC]$

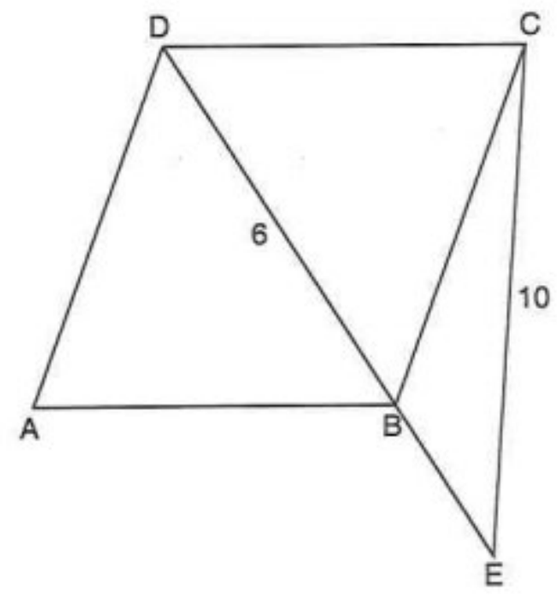
$|DF| = 18$ br

$|BF| = 6$ br

$\Rightarrow$ **$|BE| = ?$**

A) 6 B) $\frac{15}{2}$ C) 9 D) $\frac{21}{2}$ E) 12

5.



ABCD eşkenar dörtgen (*rhombus*)

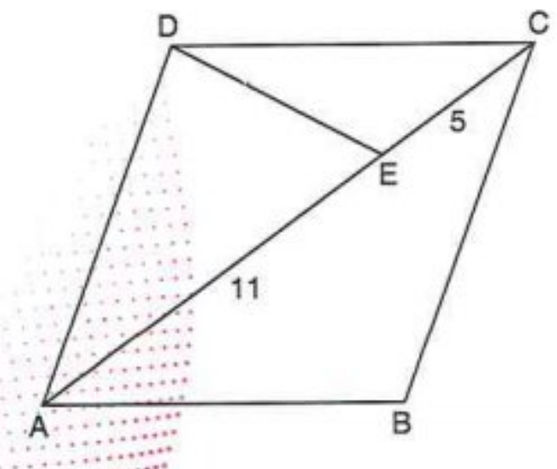
$|CE| = 2|BE| = 10$ br

$|BD| = 6$ br

$\Rightarrow$ **Ç(ABCD) = ?**

A) $6\sqrt{5}$ B) $8\sqrt{3}$ C) $8\sqrt{5}$ D) $12\sqrt{3}$ E) $12\sqrt{5}$

6.



ABCD eşkenar dörtgen (*rhombus*)

$|DE| = |EC| = 5$ br

$|AE| = 11$ br

$\Rightarrow$ **$|AD| = ?$**

A) $4\sqrt{3}$ B) $4\sqrt{5}$ C) $8\sqrt{2}$ D) $8\sqrt{3}$ E) $8\sqrt{5}$

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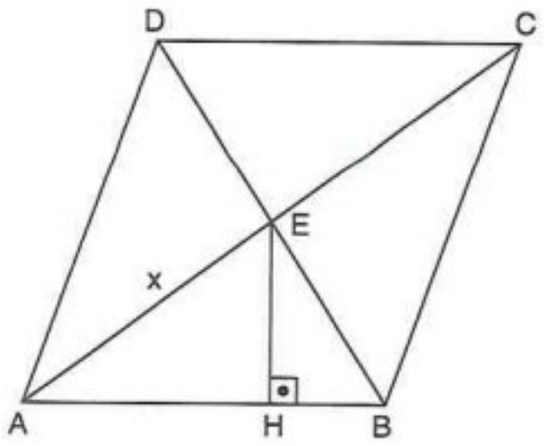
Eşkenar Dörtgen (Rhombus)

7.



ABCD eşkenar dörtgen (*rhombus*)

$[EH] \perp [AB]$

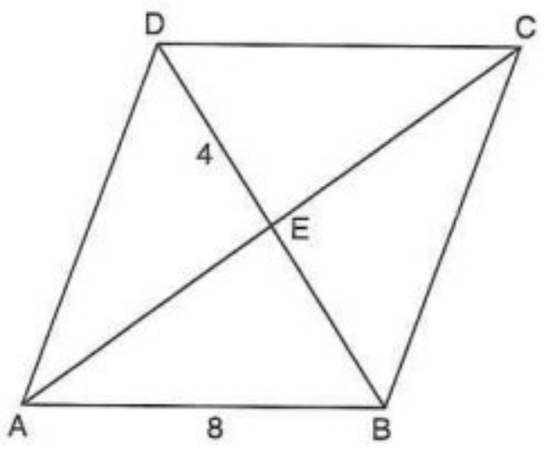
$|HB| = 2$ br

$|AH| = 4$ br

⇒ **$|AE| = x = ?$**

A) $2\sqrt{5}$ B) $2\sqrt{6}$ C) $4\sqrt{2}$ D) $4\sqrt{3}$ E) $4\sqrt{5}$

8.



ABCD eşkenar dörtgen (*rhombus*)

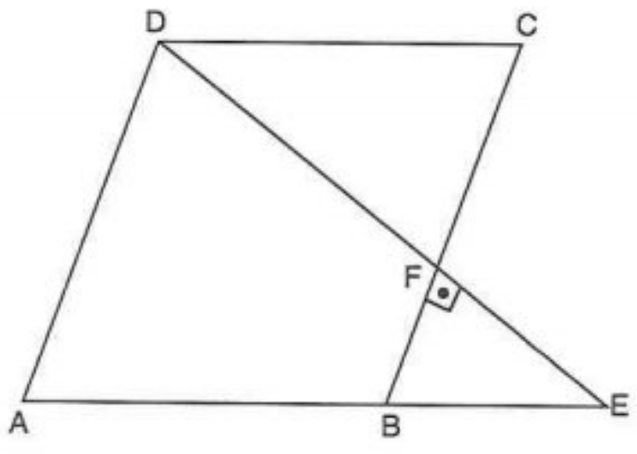
$|DE| = 4$ br

$|AB| = 8$ br

⇒ **A(ABCD) = ?**

A) 16 B) $16\sqrt{3}$ C) 32 D) $32\sqrt{3}$ E) 64

9.



ABCD eşkenar dörtgen (*rhombus*)

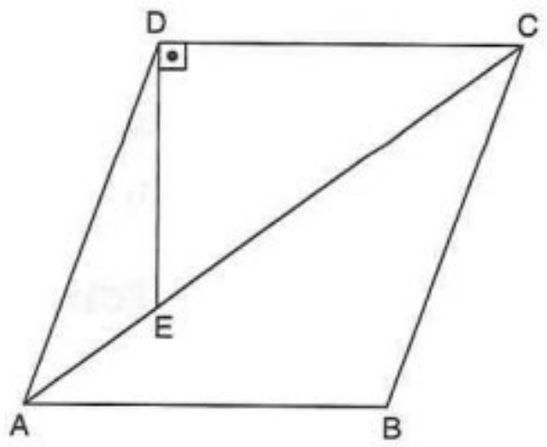
$[DE] \perp [BC]$

$|AB| = |BE| = 6$ br

⇒ **A(ABCD) = ?**

A) $12\sqrt{3}$ B) 24 C) $18\sqrt{3}$ D) 36 E) $36\sqrt{3}$

10.



ABCD eşkenar dörtgen (*rhombus*)

$[ED] \perp [DC]$

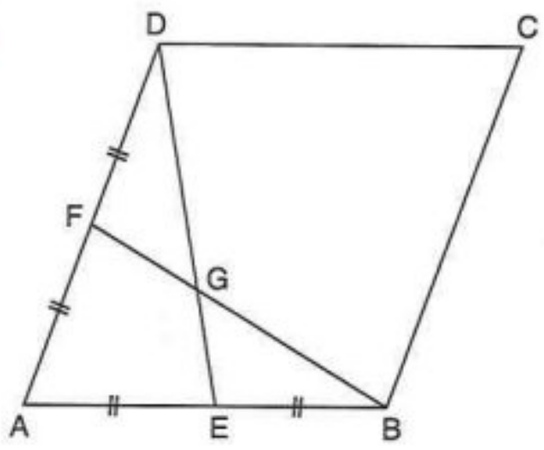
$|AE| = 5$ br

$|EC| = 13$ br

⇒ **A(ADE) = ?**

A) 10 B) 15 C) 18 D) 24 E) 25

11.



ABCD eşkenar dörtgen (*rhombus*)

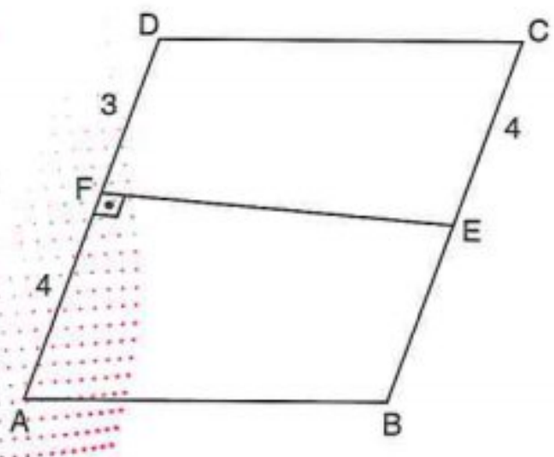
$|AF| = |FD| = |AE| = |EB|$

$A(AFGE) = 4$ br^2

⇒ **A(ABCD) = ?**

A) 16 B) 20 C) 24 D) 28 E) 32

12.



ABCD eşkenar dörtgen (*rhombus*)

$[EF] \perp [AD]$

$|DF| = 3$ br

$|AF| = |EC| = 4$ br

⇒ **A(ABCD) = ?**

A) $28\sqrt{3}$ B) 28 C) $14\sqrt{3}$ D) 14 E) $7\sqrt{3}$

1. D	2. A	3. B	4. B	5. E	6. B
7. B	8. D	9. C	10. B	11. C	12. A

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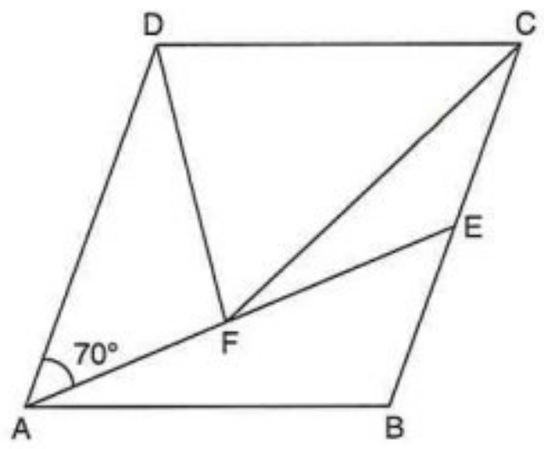
1.

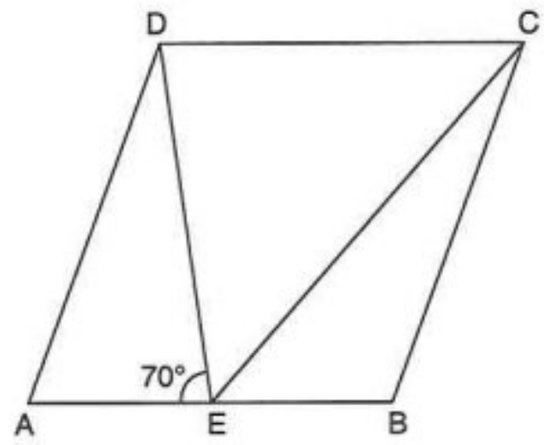


ABCD eşkenar dörtgen (*rhombus*)
DFC eşkenar üçgen (*equilateral triangle*)
$m(\widehat{DAE}) = 70°$

$\Rightarrow$ **$m(\widehat{FCB}) = ?$**

A) 10° B) 15° C) 20° D) 25° E) 30°

2.

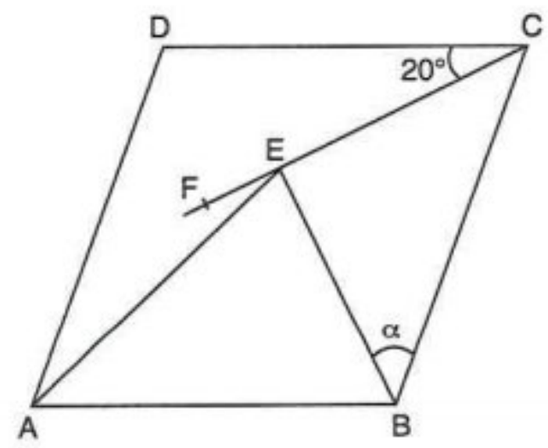


ABCD eşkenar dörtgen (*rhombus*)
$|DE| = |AB|$
$m(\widehat{AED}) = 70°$

$\Rightarrow$ **$m(\widehat{ECB}) = ?$**

A) 30° B) 35° C) 15° D) 45° E) 50°

3.

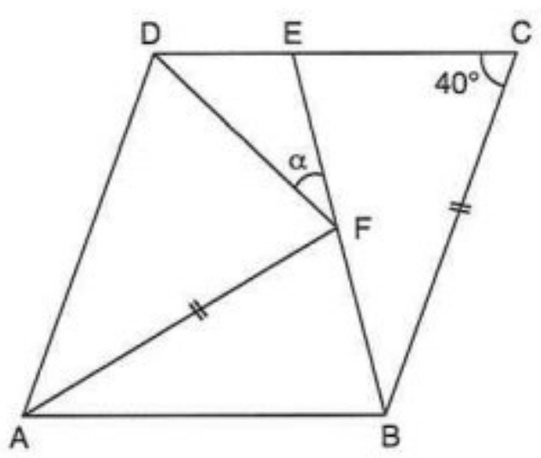


ABCD eşkenar dörtgen (*rhombus*)
AEB eşkenar üçgen (*equilateral triangle*)
$m(\widehat{DCF}) = 20°$

$\Rightarrow$ **$m(\widehat{EBC}) = \alpha = ?$**

A) 20° B) 25° C) 30° D) 35° E) 40°

4.

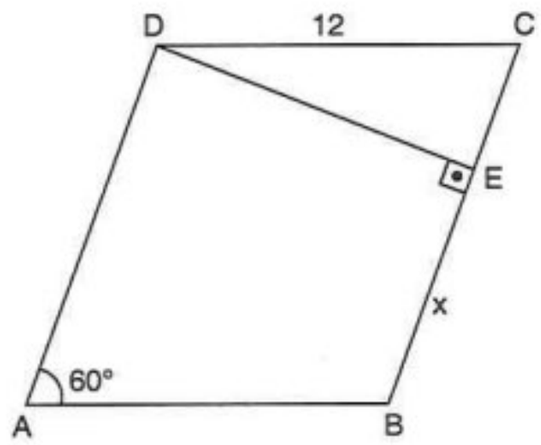


ABCD eşkenar dörtgen (*rhombus*)
$m(\widehat{DAF}) = m(\widehat{FAB})$
$|AF| = |BC|$
$m(\widehat{C}) = 40°$

$\Rightarrow$ **$m(\widehat{DFE}) = \alpha = ?$**

A) 10° B) 20° C) 30° D) 40° E) 50°

5.

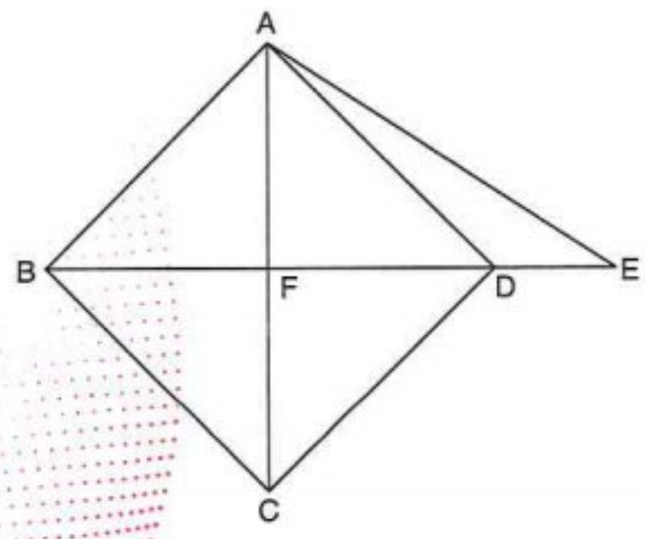


ABCD eşkenar dörtgen (*rhombus*)
$[DE] \perp [BC]$
$m(\widehat{A}) = 60°$
$|DC| = 12$ br

$\Rightarrow$ **$|EB| = x = ?$**

A) 2 B) 3 C) 4 D) 5 E) 6

6.



ABCD eşkenar dörtgen (*rhombus*)
$|AE| = 17$ br
$|DE| = 9$ br
$|AC| = 16$ br

$\Rightarrow$ **Ç(ABCD) = ?**

A) 40 B) 42 C) 46 D) 52 E) 56

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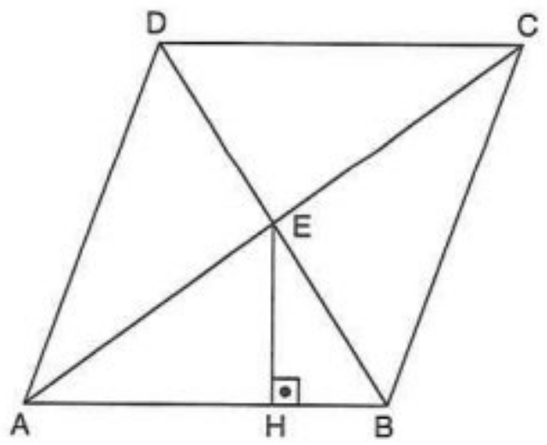
7.



ABCD eşkenar dörtgen (*rhombus*)

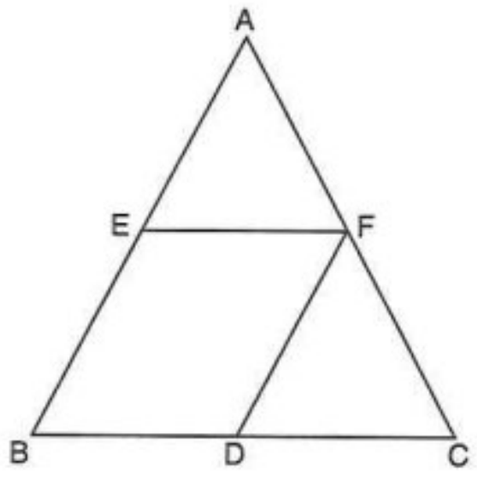
$[EH] \perp [AB]$

$\frac{|AH|}{|HB|} = 3$

$\Rightarrow \frac{|AC|}{|BD|} = ?$

A) $\frac{1}{\sqrt{3}}$ B) $\frac{2}{\sqrt{3}}$ C) $\sqrt{3}$ D) 1 E) 2

8.



BDFE eşkenar dörtgen (*rhombus*)

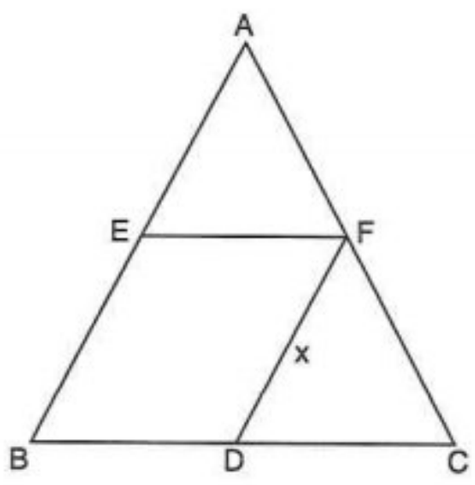
ABC eşkenar üçgen (*equilateral triangle*)

Ç(ABC) = 12 br

⇒ **Ç(BDFE) = ?**

A) 8 B) 10 C) 12 D) 14 E) 16

9.



BDFE eşkenar dörtgen (*rhombus*)

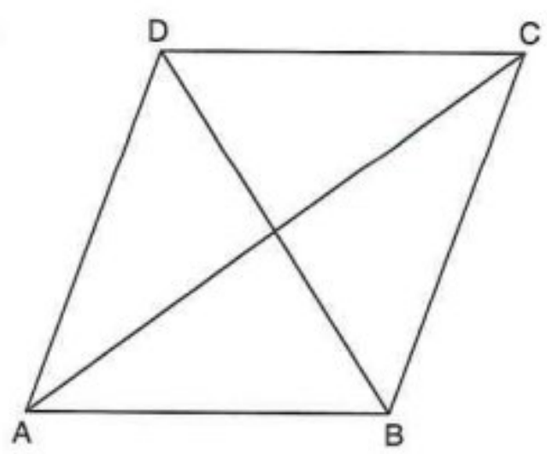
$|BC| = 8$ br

$|AB| = 16$ br

⇒ $|DF| = x = ?$

A) 5 B) $\frac{16}{3}$ C) 6 D) $\frac{17}{3}$ E) 7

10.



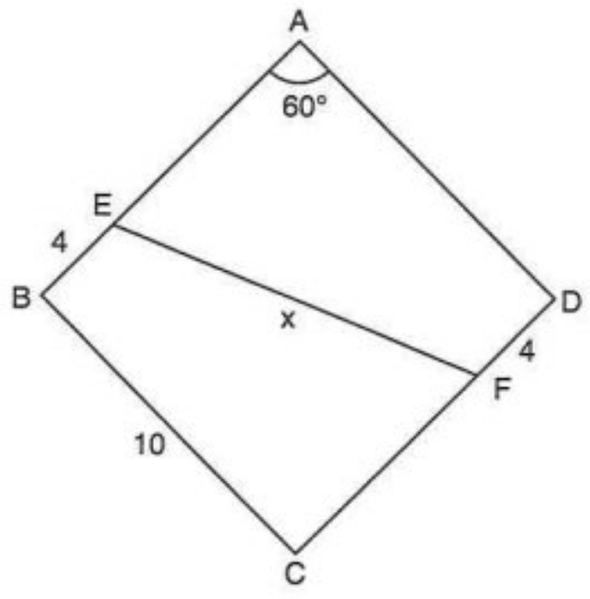
ABCD eşkenar dörtgen (*rhombus*)

$|AC|^2 + |BD|^2 = 100$ br

⇒ **Ç(ABCD) = ?**

A) 15 B) 16 C) 18 D) 20 E) 21

11.



ABCD eşkenar dörtgen (*rhombus*)

$m(\widehat{A}) = 60°$

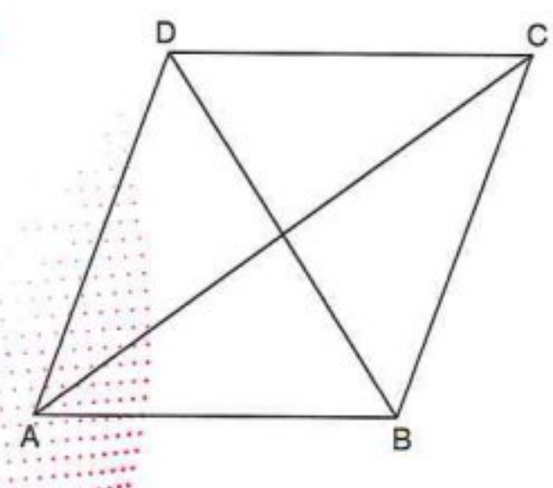
$|BE| = |FD| = 4$ br

$|BC| = 10$ br

⇒ $|EF| = x = ?$

A) $4\sqrt{3}$ B) 9 C) $2\sqrt{4}$ D) $2\sqrt{5}$ E) $2\sqrt{21}$

12.



ABCD eşkenar dörtgen (*rhombus*)

$2|BD| = |AC|$

$A(ABCD) = 36$ br^2

⇒ **Ç(ABCD) = ?**

A) $24\sqrt{5}$ B) $20\sqrt{5}$ C) $16\sqrt{5}$ D) $20\sqrt{2}$ E) $12\sqrt{5}$

1. C	2. C	3. A	4. B	5. E	6. A
7. C	8. A	9. B	10. D	11. E	12. E

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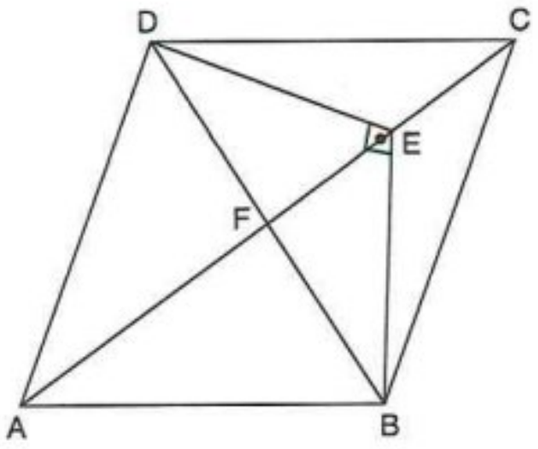
1.



ABCD eşkenar dörtgen (*rhombus*)

$[DE] \perp [EB]$

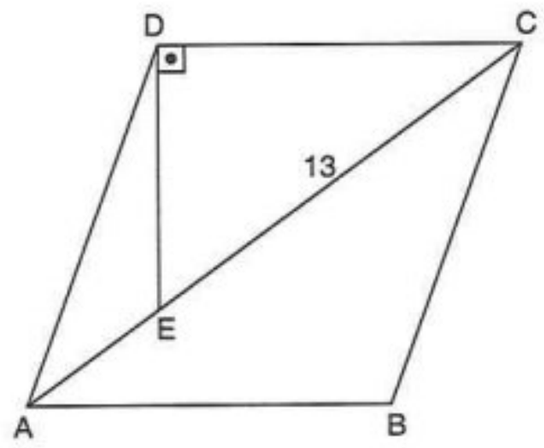
$|AF| = 6$ br

$|FE| = 2|EC|$

⇒ **A(DFE) + A(BFC) = ?**

A) 20 B) 21,5 C) 24,5 D) 34,5 E) 37

2.



ABCD eşkenar dörtgen (*rhombus*)

$[ED] \perp [DC]$

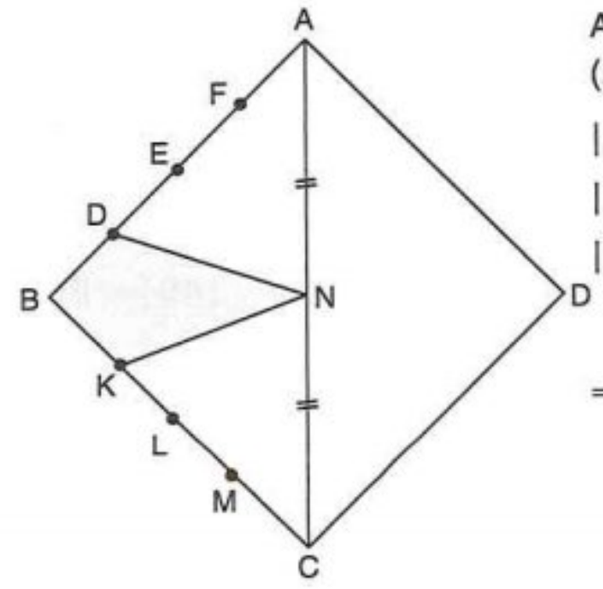
$|AE| = 5$ br

$|EC| = 13$ br

⇒ **A(ABCD) = ?**

A) 72 B) 84 C) 96 D) 108 E) 144

3.



ABCD eşkenar dörtgen (*rhombus*)

$|AF| = |FE| = |ED| = |DB|$

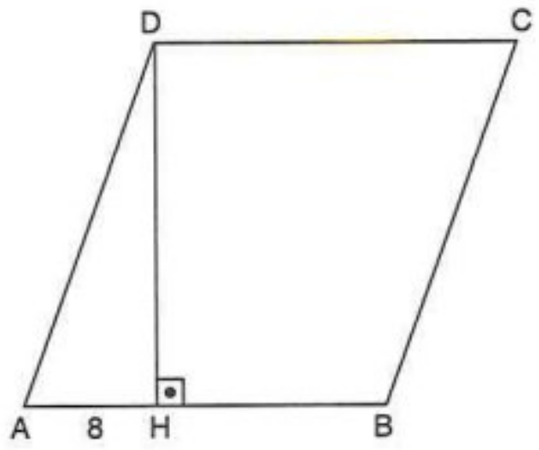
$|BK| = |KL| = |LM| = |MC|$

$|AN| = |NC|$

$\Rightarrow \dfrac{A(ABCD)}{A(BKND)} = ?$

A) 5 B) 6 C) 7 D) 8 E) 9

4.



ABCD eşkenar dörtgen (*rhombus*)

$[DH] \perp [AB]$

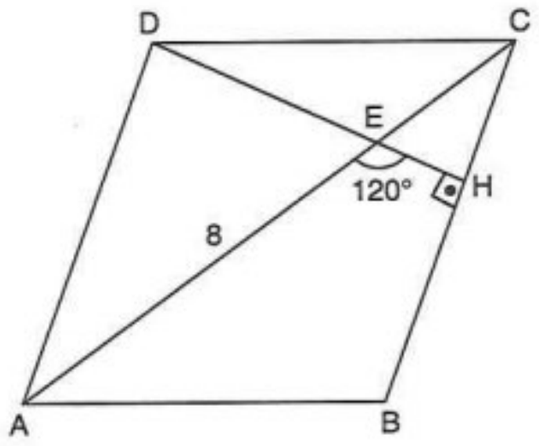
$|HB| = 2$ br

$|AH| = 8$ br

⇒ **A(ABCD) = ?**

A) 16 B) 24 C) 48 D) 60 E) 64

5.



ABCD eşkenar dörtgen (*rhombus*)

$[DH] \perp [BC]$

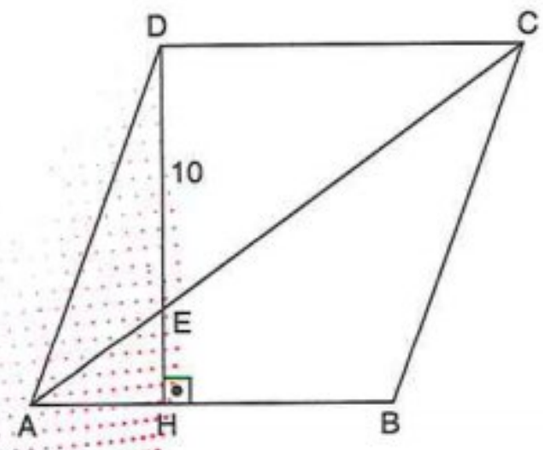
$m(A\widehat{E}H) = 120°$

$|AE| = 8$ br

⇒ **A(ABCD) = ?**

A) $16\sqrt{3}$ B) $18\sqrt{3}$ C) $20\sqrt{3}$ D) $24\sqrt{3}$ E) $27\sqrt{3}$

6.



ABCD eşkenar dörtgen (*rhombus*)

$[DH] \perp [AB]$

$|DE| = 10$ br

$|EH| = 6$ br

⇒ **A(ABCD) = ?**

A) 144 B) 196 C) 200 D) 240 E) 320

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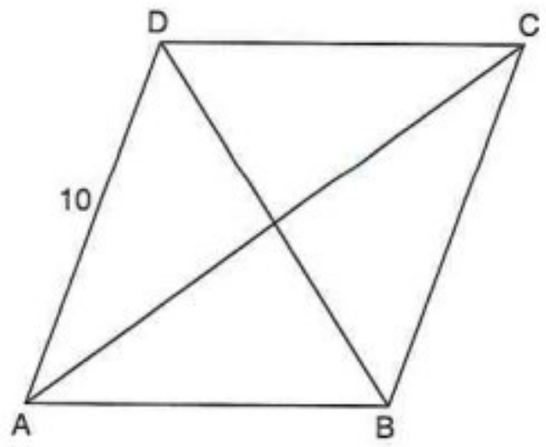
7.



ABCD eşkenar dörtgen (*rhombus*)

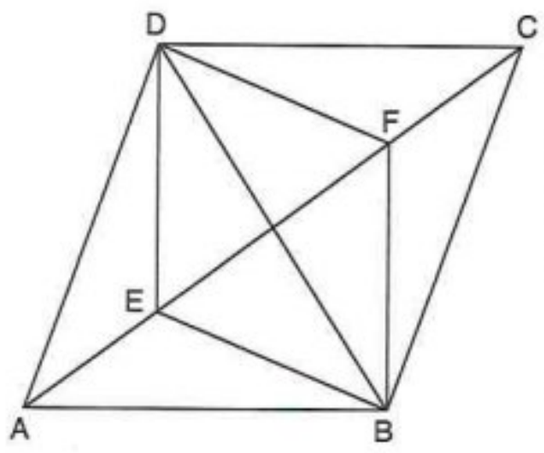
$|DB| + |AC| = 28$ br

$|AD| = 10$ br

⇒ **A(ABCD) = ?**

A) 64 B) 72 C) 84 D) 96 E) 100

8.



ABCD, DEBF eşkenar dörtgen (*rhombus*)

$|BD| = 16$ br

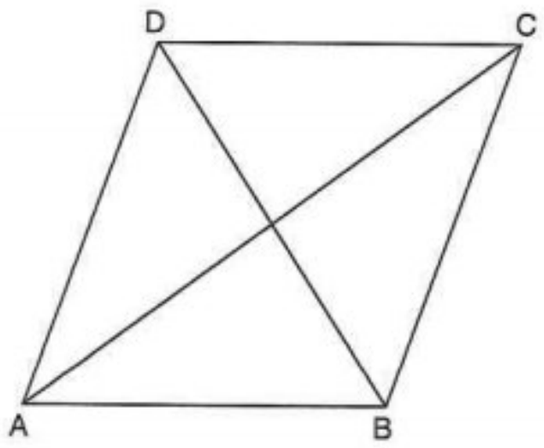
Ç(ABCD) = 68 br

Ç(DEBF) = 40 br

⇒ **A(ABCD) – A(DEBF) = ?**

A) 124 B) 136 C) 144 D) 156 E) 172

9.



ABCD eşkenar dörtgen (*rhombus*)

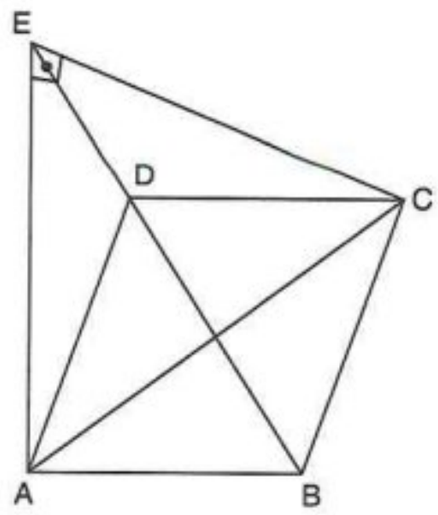
$|AC|^2 + |BD|^2 = 100$ br

$A(ABCD) = 24$ br^2

⇒ **|AC| + |BD| = ?**

A) 20 B) 18 C) 16 D) 14 E) 12

10.



ABCD eşkenar dörtgen (*rhombus*)

$[AE] \perp [EC]$

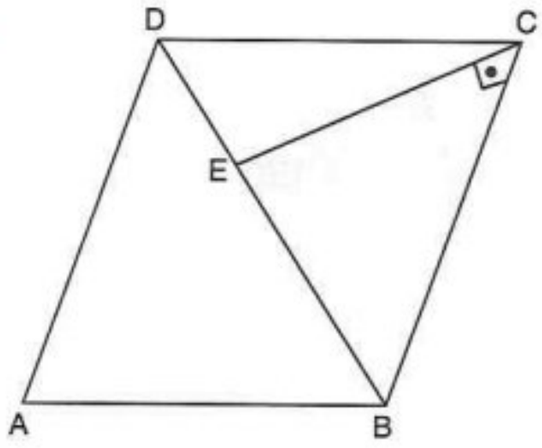
$|BD| = 8$ br

$|ED| = 3$ br

⇒ **A(ABCD) = ?**

A) 42 B) 44 C) 48 D) 52 E) 56

11.



ABCD eşkenar dörtgen (*rhombus*)

$[EC] \perp [BC]$

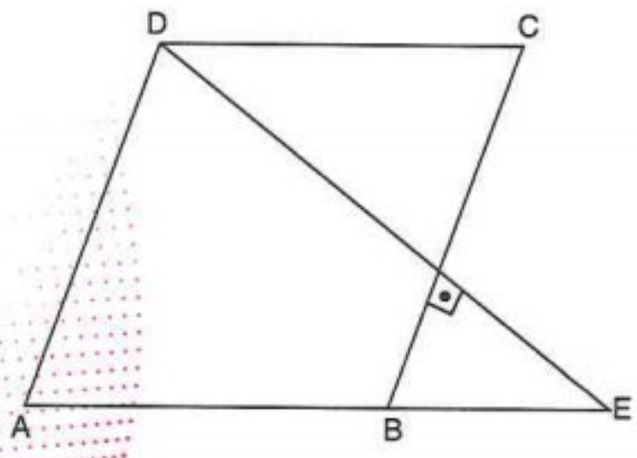
$|DE| = 4$ br

$|EB| = 8$ br

⇒ **A(ECB) = ?**

A) 8 B) 6 C) 4 D) $6\sqrt{3}$ E) $8\sqrt{3}$

12.



ABCD eşkenar dörtgen (*rhombus*)

$[DE] \perp [BC]$

$|AB| = |BE| = 12$ br

⇒ **A(ABCD) = ?**

A) $72\sqrt{3}$ B) $60\sqrt{3}$ C) $48\sqrt{3}$ D) $36\sqrt{3}$ E) $24\sqrt{3}$

1. A	2. D	3. D	4. D	5. D	6. E
7. D	8. C	9. D	10. E	11. E	12. A

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DİKDÖRTGEN
RECTANGLE

KONU KAVRAMA TESTİ
Thread Grip Test

ZİHİN HARİTASI
Mind Map

6
TEST
Tests

96
SORU
Questions

CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS

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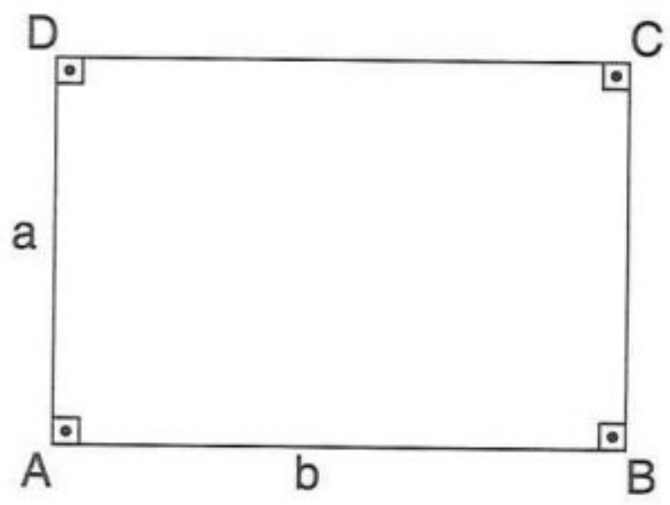
DİKDÖRTGEN
RECTANGLE

CANER eğitim kurumları

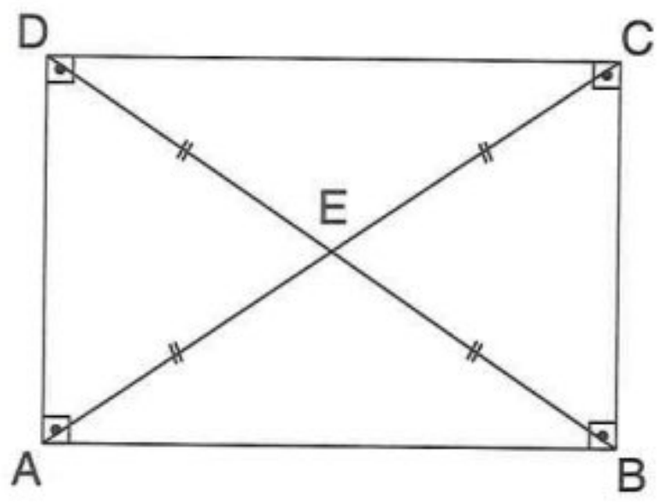
1.



$m(\widehat{A}) = m(\widehat{B}) = m(\widehat{C}) = m(\widehat{D}) = 90°$

$Ç(ABCD) = 2\,(a + b)$ $\qquad A(ABCD) = a \cdot b$

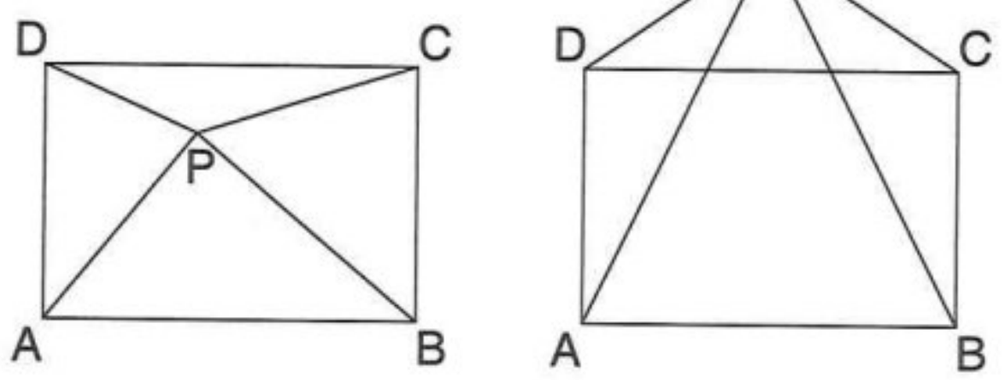
2.



$|AC| = |BD|$

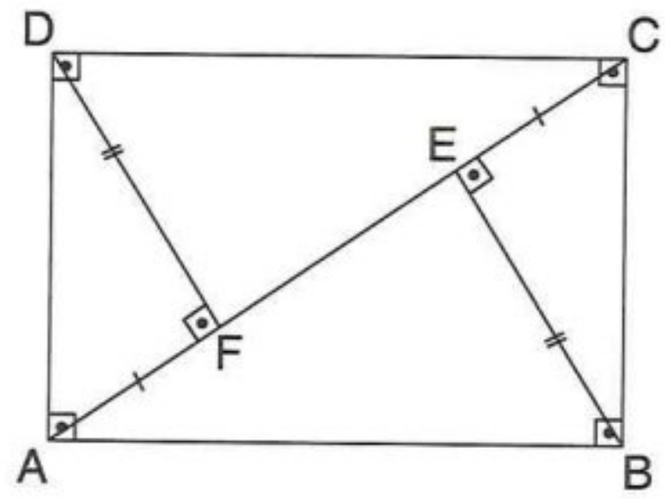
$|AE| = |EC| = |BE| = |ED|$

3.



$|PA|^2 + |PC|^2 = |PB|^2 + |PD|^2$

4.



$|EC| = |AF|$

$|DF| = |BE|$

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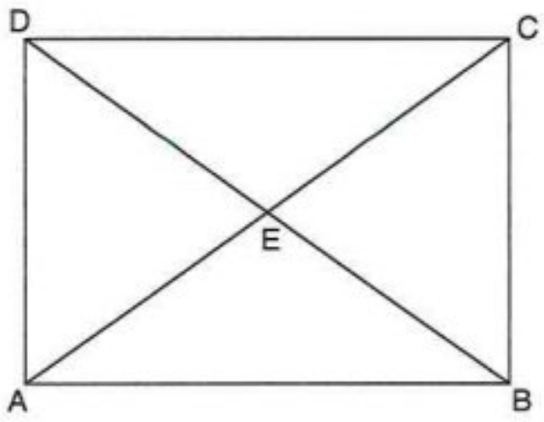
1.

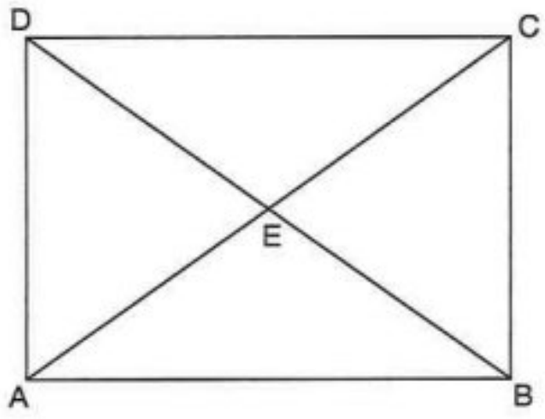


ABCD dikdörtgen (*rectangle*)
$|AE| = (2x+3)$ br
$|DE| = (3x-1)$ br

⇒ **x = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

2.

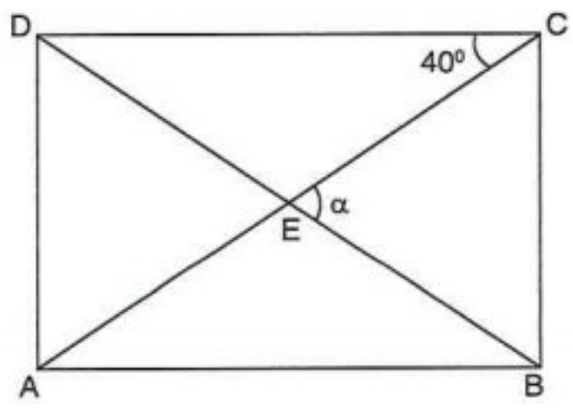


ABCD dikdörtgen (*rectangle*)
$|EC| = (5x+3)$ br
$|DE| = (3x+9)$ br

⇒ **|AC| = ?**

A) 12 B) 15 C) 18 D) 24 E) 36

3.

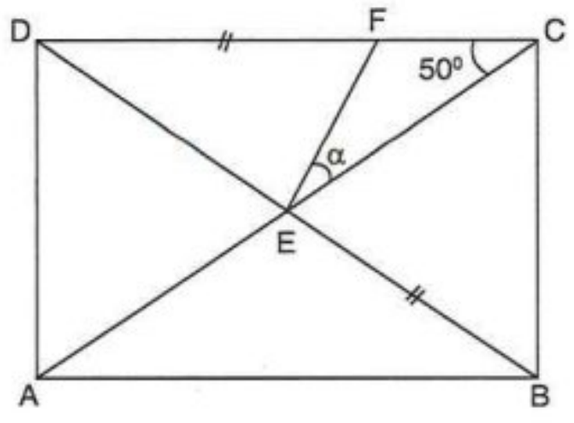


ABCD dikdörtgen (*rectangle*)
$m(\widehat{DCA}) = 40°$

⇒ **$m(\widehat{CEB}) = \alpha = ?$**

A) 50° B) 60° C) 70° D) 80° E) 90°

4.

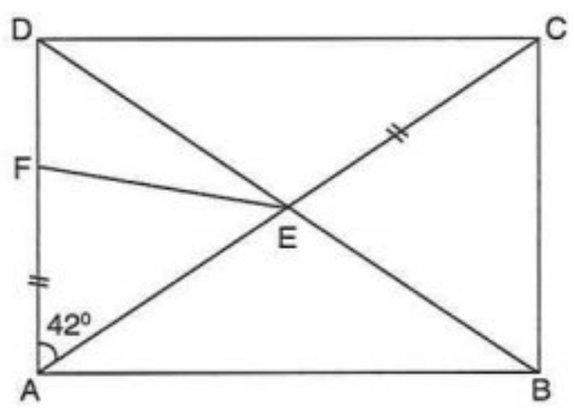


ABCD dikdörtgen (*rectangle*)
$m(\widehat{DCA}) = 50°$
$|DF| = |EB|$

⇒ **$m(\widehat{FEC}) = \alpha = ?$**

A) 15° B) 20° C) 25° D) 30° E) 35°

5.

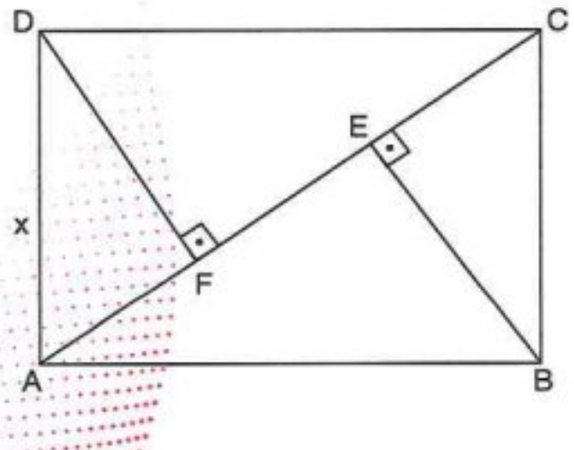


ABCD dikdörtgen (*rectangle*)
$m(\widehat{DAE}) = 42°$
$|AF| = |EC|$

⇒ **$m(\widehat{FED}) = ?$**

A) 26° B) 27° C) 28° D) 29° E) 30°

6.



ABCD dikdörtgen (*rectangle*)
$[DF] \perp [AC]$
$[BE] \perp [AC]$
$|DF| = 4\sqrt{2}$ br
$|EC| = 2$ br

⇒ **$|AD| = x = ?$**

A) 6 B) $2\sqrt{10}$ C) $4\sqrt{3}$ D) 8 E) $8\sqrt{2}$

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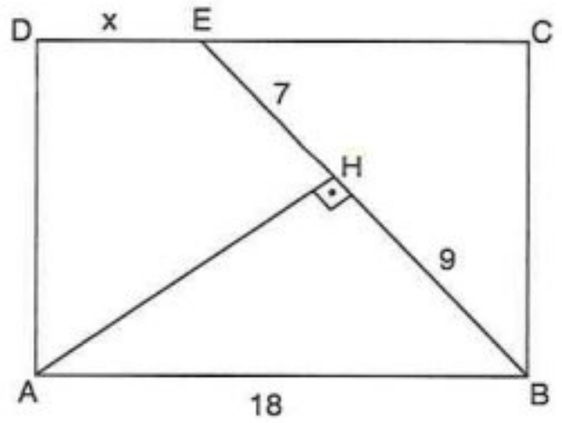
7.

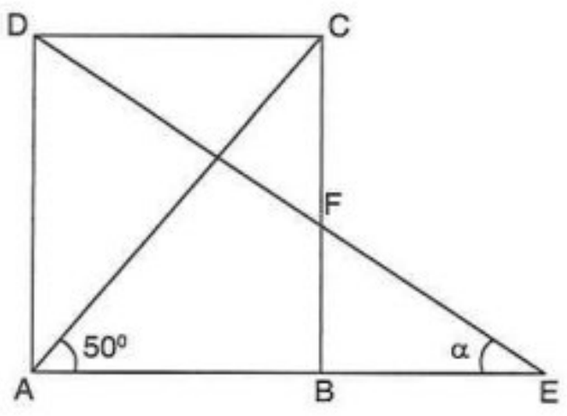


ABCD dikdörtgen (*rectangle*)
$|AH| \perp |EB|$
$|EH| = 7$ br
$|HB| = 9$ br
$|AB| = 18$ br

⇒ **$|DE| = x = ?$**

A) 6 B) 7 C) 8 D) 9 E) 10

8.

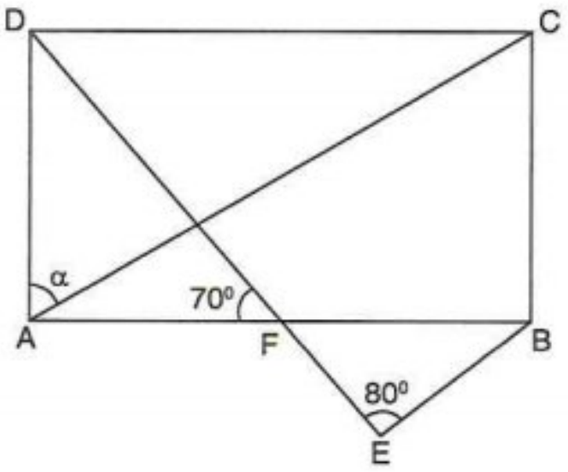


ABCD dikdörtgen (*rectangle*)
$|BE| = |AC|$
$m(\widehat{CAE}) = 50°$

⇒ **$m(\widehat{DEA}) = \alpha = ?$**

A) 20° B) 25° C) 30° D) 35° E) 40°

9.

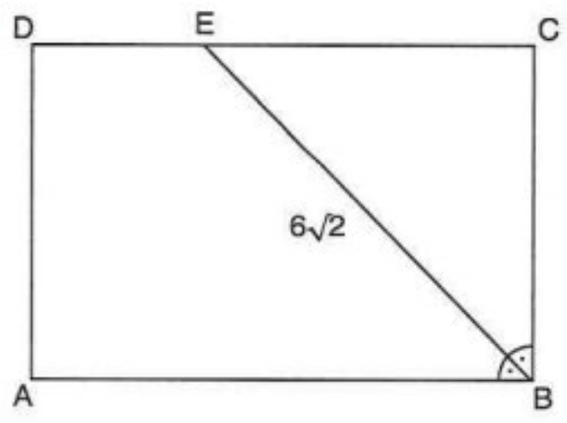


ABCD dikdörtgen (*rectangle*)
$|AC| = |DE|$
$m(\widehat{DEB}) = 80°$
$m(\widehat{AFD}) = 70°$

⇒ **$m(\widehat{DAC}) = \alpha = ?$**

A) 35° B) 40° C) 45° D) 50° E) 55°

10.

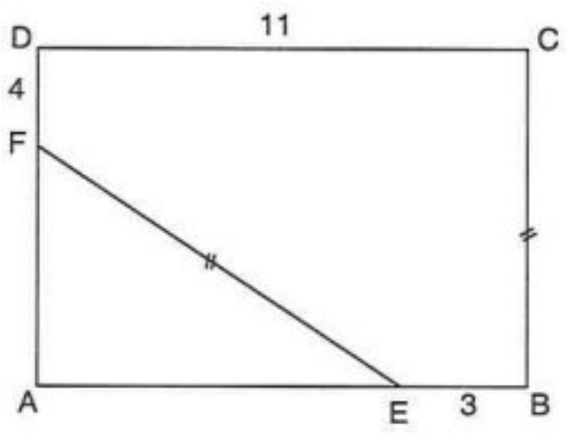


ABCD dikdörtgen (*rectangle*)
$m(\widehat{ABE}) = m(\widehat{EBC})$
$|DE| = 3$ br
$|EB| = 6\sqrt{2}$ br

⇒ **A(ABCD) = ?**

A) 20 B) 24 C) 35 D) 48 E) 54

11.

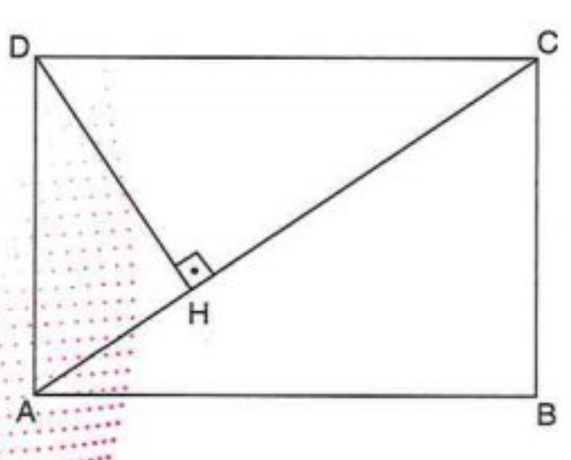


ABCD dikdörtgen (*rectangle*)
$|BC| = |EF|$
$|EB| = 3$ br
$|FD| = 4$ br
$|DC| = 11$ br

⇒ **Ç (ABCD) = ?**

A) 38 B) 40 C) 42 D) 44 E) 46

12.



ABCD dikdörtgen (*rectangle*)
$|DH| = 6$ br
$|HC| = 12$ br

⇒ **A(ABCD) = ?**

A) 36 B) 45 C) 54 D) 72 E) 90

1. D	2. E	3. D	4. A	5. B	6. A
7. E	8. B	9. B	10. E	11. C	12. E

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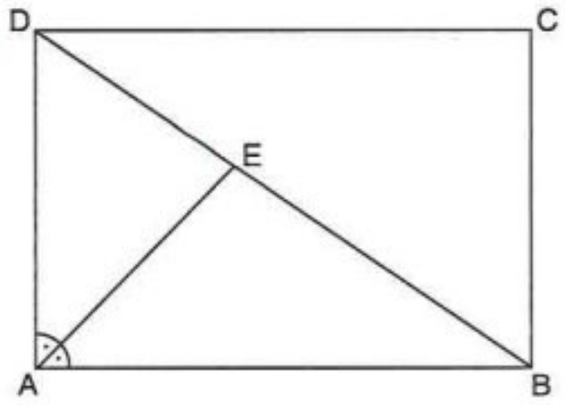
13.



ABCD dikdörtgen (*rectangle*)

$m(\widehat{DAE}) = m(\widehat{EAB})$

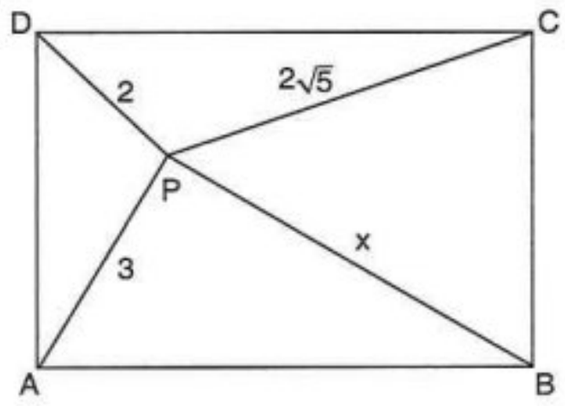
$|DE| = \sqrt{5}$ br

$|EB| = 2\sqrt{5}$ br

⇒ **A (ABCD) = ?**

A) 10 B) 12 C) 15 D) 18 E) 20

14.



ABCD dikdörtgen (*rectangle*)

$|PD| = 2$ br

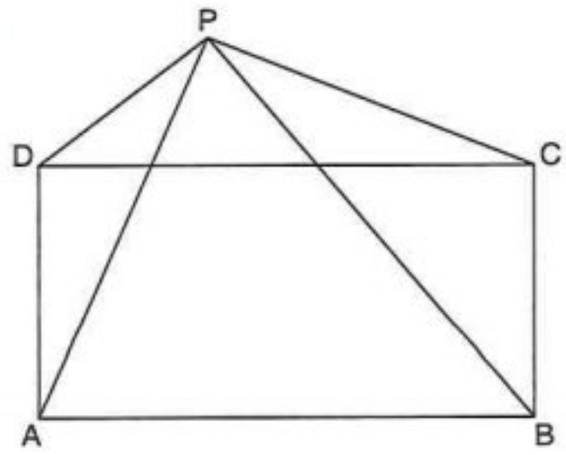
$|PA| = 3$ br

$|PC| = 2\sqrt{5}$ br

⇒ **|PB| = x = ?**

A) $2\sqrt{6}$ B) 5 C) $3\sqrt{3}$ D) $2\sqrt{7}$ E) $\sqrt{29}$

15.



ABCD dikdörtgen (*rectangle*)

$|PA| = 7$ br

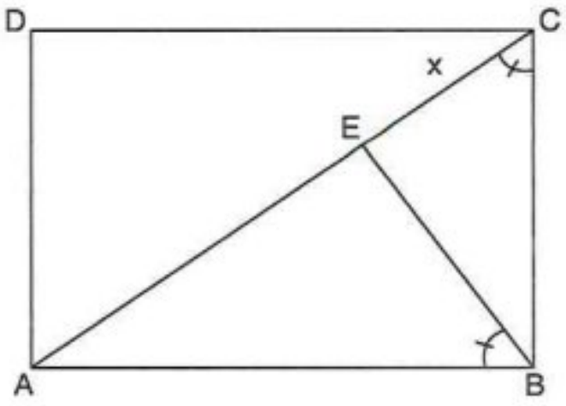
$|PB| = 8$ br

$|PC| = 5$ br

⇒ **|PD| = ?**

A) 2 B) $2\sqrt{2}$ C) 3 D) $\sqrt{10}$ E) $2\sqrt{3}$

16.



ABCD dikdörtgen (*rectangle*)

$m(\widehat{ACB}) = m(\widehat{EBA})$

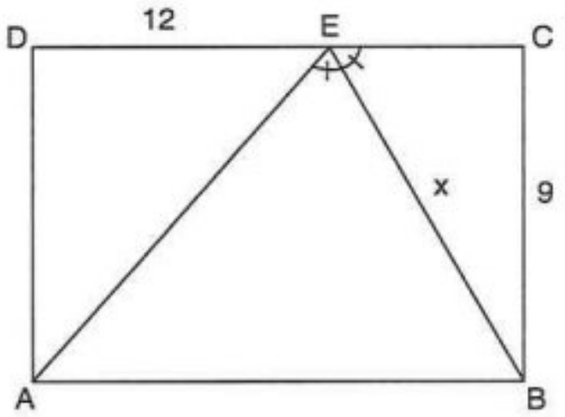
$|BC| = 6$ br

$|AE| = 5$ br

⇒ **|EC| = x = ?**

A) 4 B) $4\sqrt{2}$ C) 6 D) $2\sqrt{10}$ E) 10

17.



ABCD dikdörtgen (*rectangle*)

$m(\widehat{AEB}) = m(\widehat{BEC})$

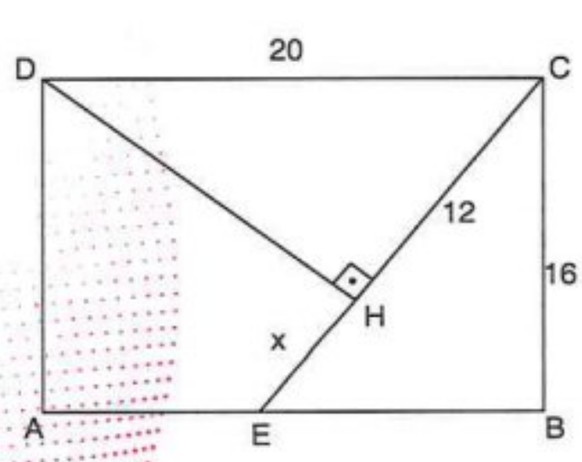
$|BC| = 9$ br

$|DE| = 12$ br

⇒ **|EB| = x = ?**

A) $3\sqrt{10}$ B) $3\sqrt{11}$ C) $6\sqrt{3}$ D) $9\sqrt{2}$ E) 12

18.



ABCD dikdörtgen (*rectangle*)

$[DH] \perp [EC]$

$|HC| = 12$ br

$|BC| = 16$ br

$|DC| = 20$ br

⇒ **|EH| = x = ?**

A) 6 B) 7 C) 8 D) 9 E) 10

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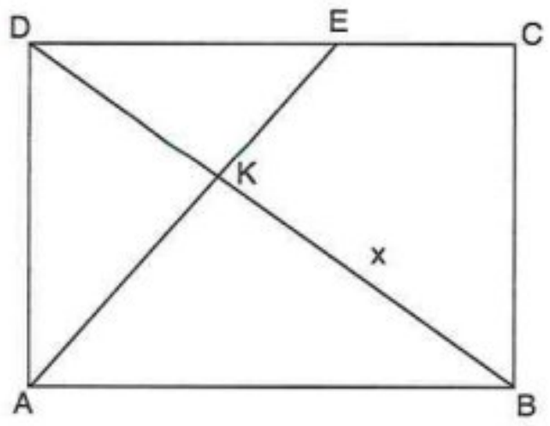
19.

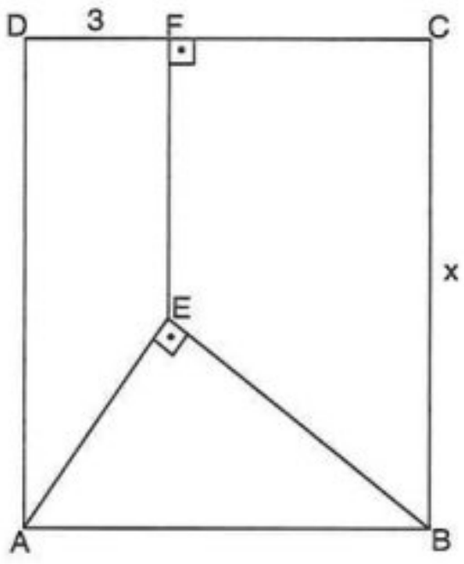


ABCD dikdörtgen (*rectangle*)
$2|DE| = 3|EC|$
$|DK| = 6$ br

⇒ **$|KB| = x = ?$**

A) 8 B) 10 C) 12 D) 14 E) 16

20.

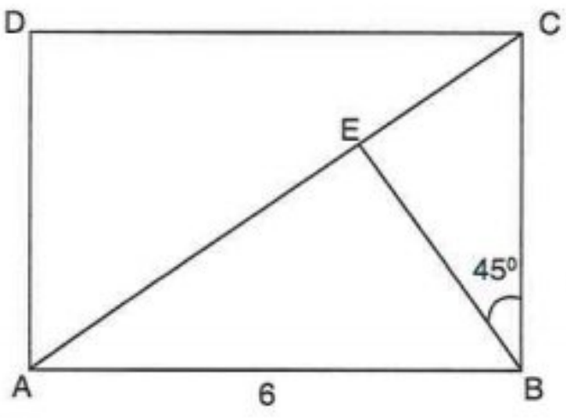


ABCD dikdörtgen (*rectangle*)
$[AE] \perp [EB]$
$[EF] \perp [DC]$
$|DF| = 3$ br
$|FC| = 12$ br
$|EF| = 13$ br

⇒ **$|BC| = x = ?$**

A) 15 B) 16 C) 17 D) 18 E) 19

21.

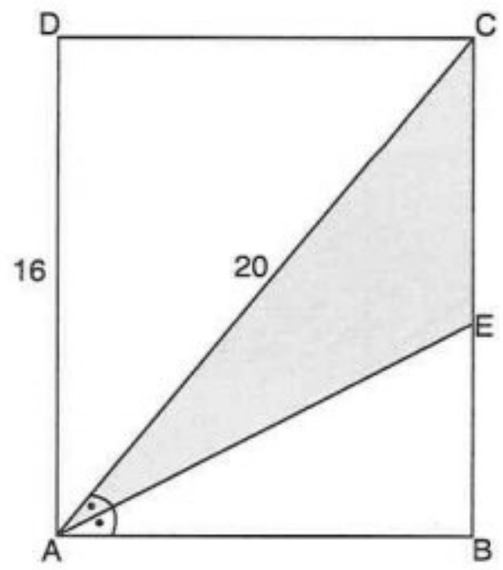


ABCD dikdörtgen (*rectangle*)
$m(\widehat{EBC}) = 45^\circ$
$2|BC| = |AB| = 6$ br

⇒ **$|EC| = ?$**

A) 2 B) $\sqrt{5}$ C) $2\sqrt{5}$ D) 3 E) $3\sqrt{5}$

22.

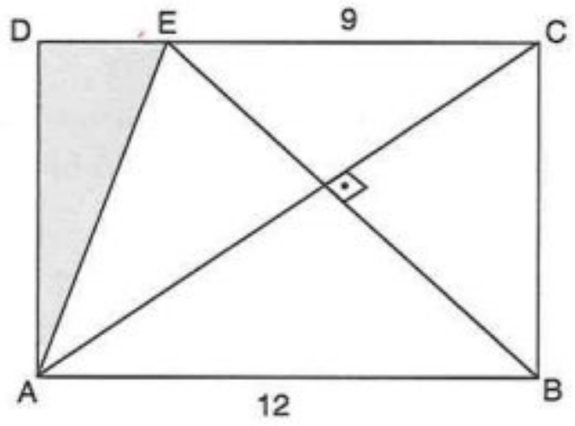


ABCD dikdörtgen (*rectangle*)
$m(\widehat{CAE}) = m(\widehat{EAB})$
$|AD| = 16$ br
$|AC| = 20$ br

⇒ **A(CAE) = ?**

A) 50 B) 60 C) 72 D) 80 E) 96

23.

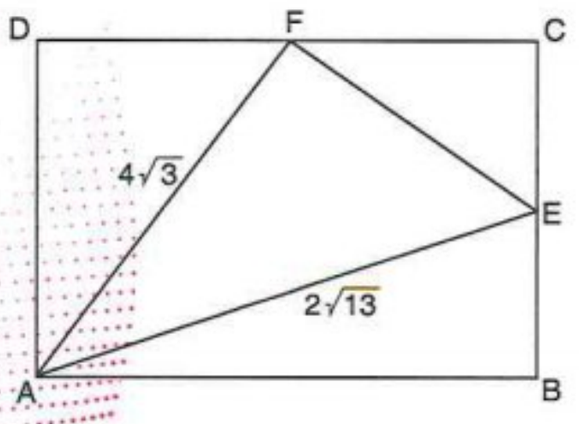


ABCD dikdörtgen (*rectangle*)
$[EB] \perp [AC]$
$|EC| = 9$ br
$|AB| = 12$ br

⇒ **A(ADE) = ?**

A) 4 B) $3\sqrt{2}$ C) $3\sqrt{3}$ D) $6\sqrt{2}$ E) $9\sqrt{3}$

24.



ABCD dikdörtgen (*rectangle*)
$|DF| = |FC|$
$|CE| = |EB|$
$|AF| = 4\sqrt{3}$ br
$|AE| = 2\sqrt{13}$ br

⇒ **$|EF| = ?$**

A) 8 B) $3\sqrt{10}$ C) 10 D) $6\sqrt{3}$ E) 12

13. D	14. B	15. D	16. A	17. A	18. C
19. B	20. E	21. B	22. B	23. E	24. C

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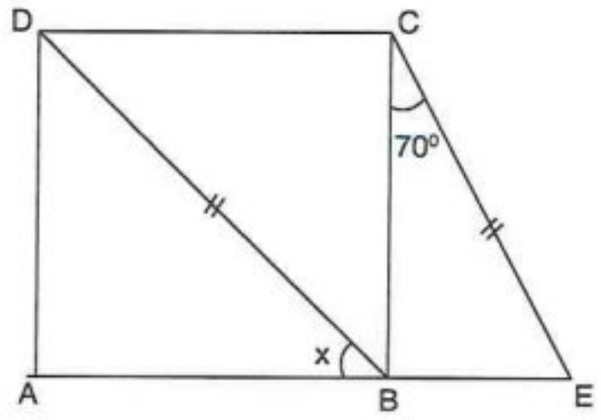
1.

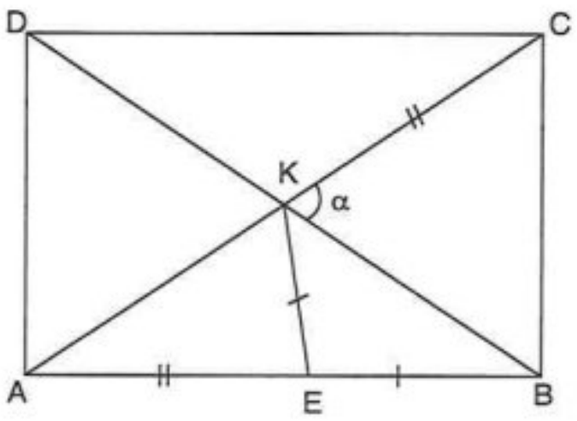


ABCD dikdörtgen (*rectangle*)
$|BD| = |CE|$
$m(\widehat{BCE}) = 70°$

$\Rightarrow m(\widehat{ABD}) = x = ?$

A) 20° B) 25° C) 30° D) 35° E) 40°

2.

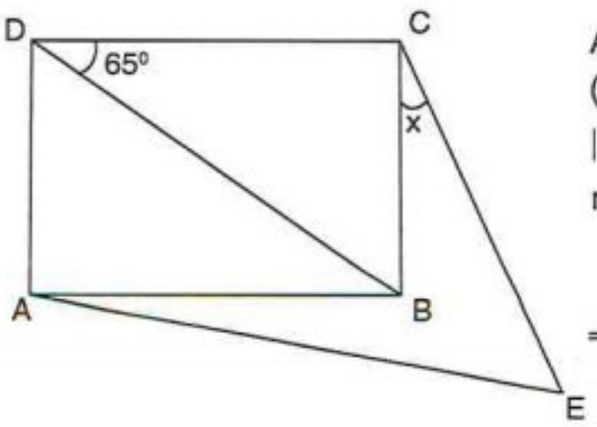


ABCD dikdörtgen (*rectangle*)
$|KC| = |AE|$
$|EK| = |EB|$

$\Rightarrow m(\widehat{BKC}) = \alpha = ?$

A) 54° B) 68° C) 72° D) 80° E) 86°

3.

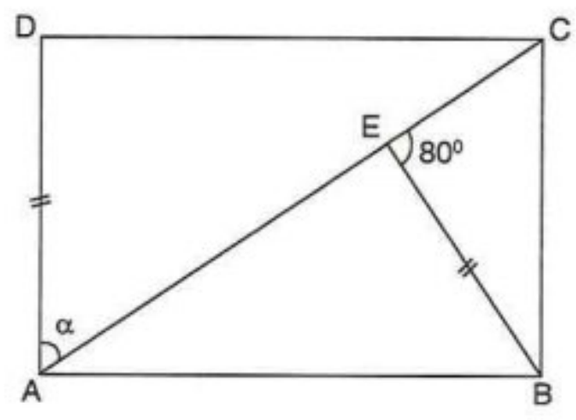


ABCD dikdörtgen (*rectangle*)
$|DB| = |AE|$
$m(\widehat{BDC}) = m(\widehat{AEC}) = 65°$

$\Rightarrow m(\widehat{BCE}) = x = ?$

A) 25° B) 30° C) 35° D) 40° E) 45°

4.

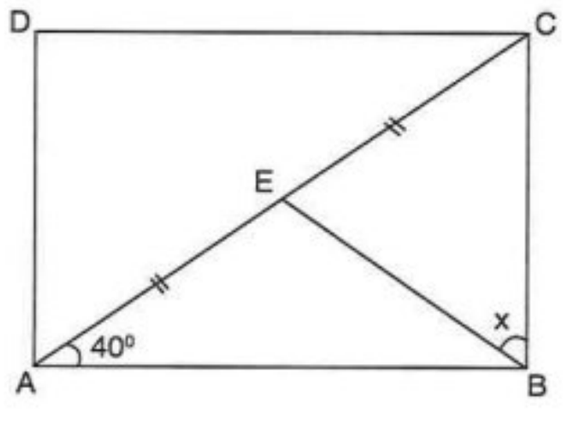


ABCD dikdörtgen (*rectangle*)
$|AD| = |EB|$
$m(\widehat{BEC}) = 80°$

$\Rightarrow m(\widehat{DAC}) = \alpha = ?$

A) 45° B) 55° C) 60° D) 75° E) 80°

5.

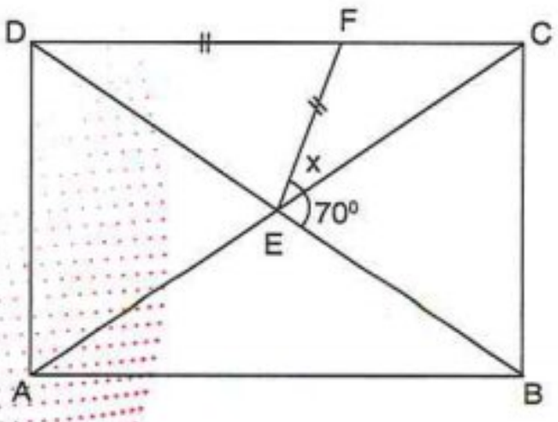


ABCD dikdörtgen (*rectangle*)
$|AE| = |EC|$
$m(\widehat{CAB}) = 40°$

$\Rightarrow m(\widehat{EBC}) = x = ?$

A) 50° B) 55° C) 60° D) 65° E) 70°

6.



ABCD dikdörtgen (*rectangle*)
$|DF| = |FE|$
$m(\widehat{CEB}) = 70°$

$\Rightarrow m(\widehat{FEC}) = x = ?$

A) 45° B) 50° C) 60° D) 65° E) 75°

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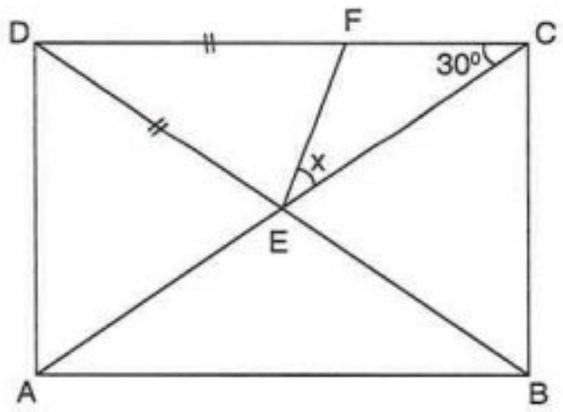
7.

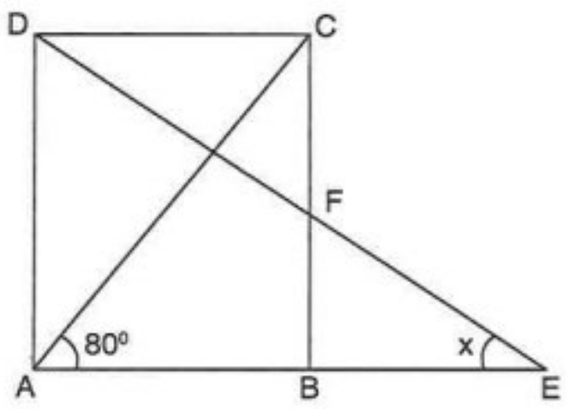


ABCD dikdörtgen (*rectangle*)
$|DE| = |DF|$
$m(\widehat{DCA}) = 30°$

⇒ **$m(\widehat{FEC}) = x = ?$**

A) 35° B) 45° C) 50° D) 55° E) 65°

8.

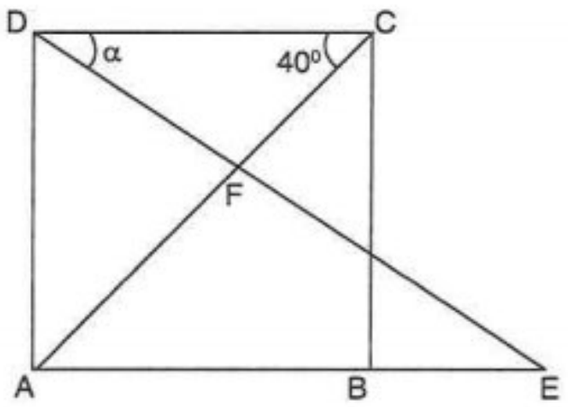


ABCD dikdörtgen (*rectangle*)
$m(\widehat{CAE}) = 80°$
$|BE| = |AC|$

⇒ **$m(\widehat{DEA}) = x = ?$**

A) 25° B) 30° C) 35° D) 40° E) 50°

9.

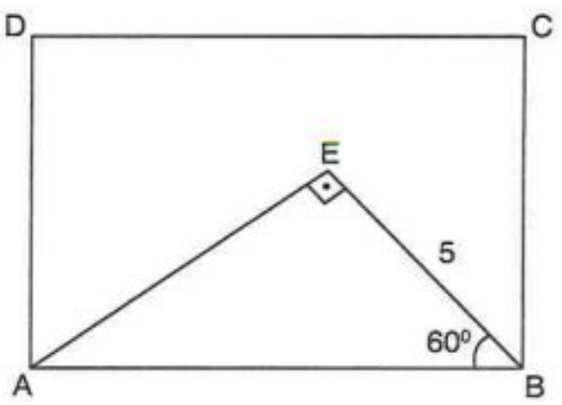


ABCD dikdörtgen (*rectangle*)
$|AC| = |BE|$
$m(\widehat{DCA}) = 40°$

⇒ **$m(\widehat{EDC}) = \alpha = ?$**

A) 30° B) 25° C) 20° D) 15° E) 10°

10.

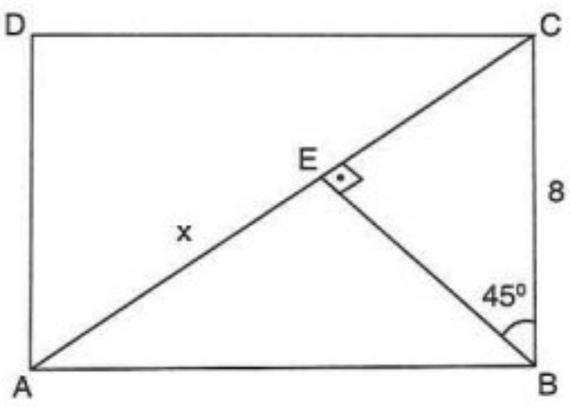


ABCD dikdörtgen (*rectangle*)
$[AE] \perp [EB]$
$m(\widehat{ABE}) = 60°$
$|BC| = 6$ br

⇒ **Ç(ABCD) = ?**

A) 16 B) 26 C) 32 D) 48 E) 60

11.

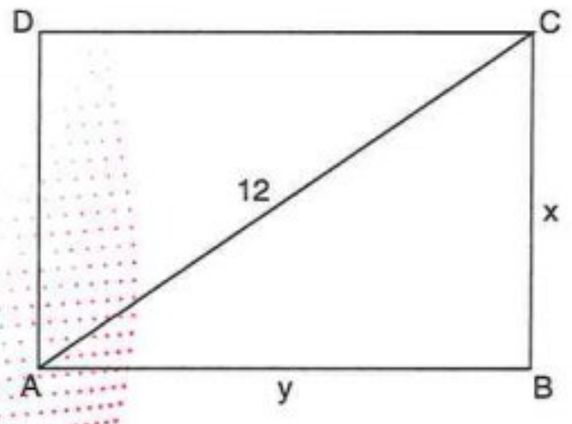


ABCD dikdörtgen (*rectangle*)
$[BE] \perp [AC]$
$m(\widehat{EBC}) = 45°$
$|BC| = 8$ br

⇒ **$|AE| = x = ?$**

A) $2\sqrt{2}$ B) $4\sqrt{2}$ C) $6\sqrt{2}$ D) $8\sqrt{2}$ E) $10\sqrt{2}$

12.



ABCD dikdörtgen (*rectangle*)
$|AC| = 12$ br
$|BC| = x$ br
$|AB| = y$ br
$x + y = 16$ br

⇒ **A(ABCD) = ?**

A) 38 B) 48 C) 56 D) 66 E) 72

1. A	2. C	3. D	4. E	5. A	6. E
7. B	8. D	9. C	10. C	11. B	12. C

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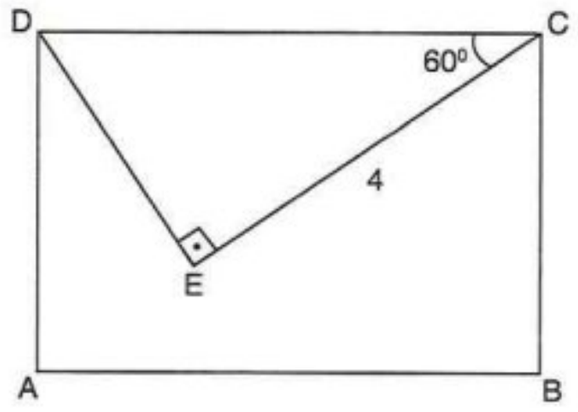
1.

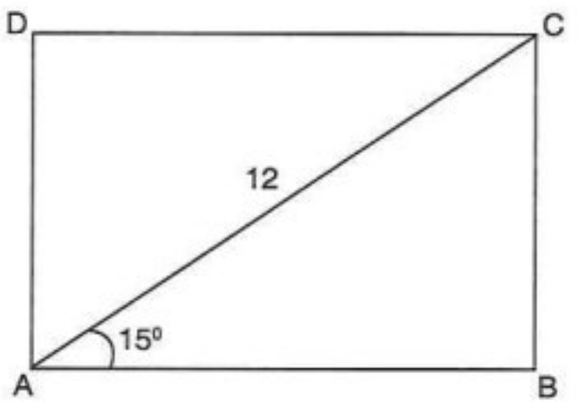


ABCD dikdörtgen (*rectangle*)
$[DE] \perp [EC]$
$m(\widehat{DCE}) = 60°$
$|EC| = 4$ br
$|AD| = 5$ br

⇒ **A(ABCD) = ?**

A) 32 B) 40 C) 45 D) 48 E) 50

2.

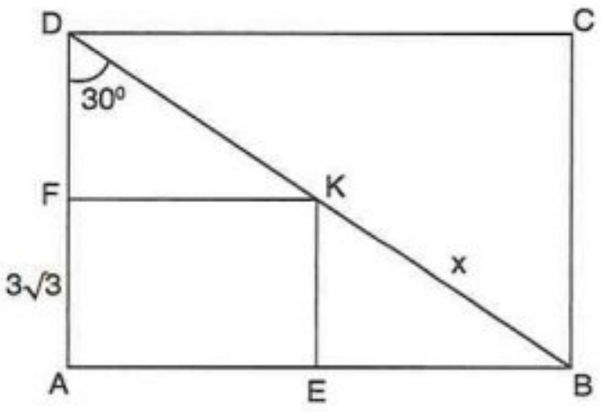


ABCD dikdörtgen (*rectangle*)
$m(\widehat{CAB}) = 15°$
$|AC| = 12$ br

⇒ **A(ABCD) = ?**

A) 24 B) 28 C) 36 D) 48 E) 60

3.

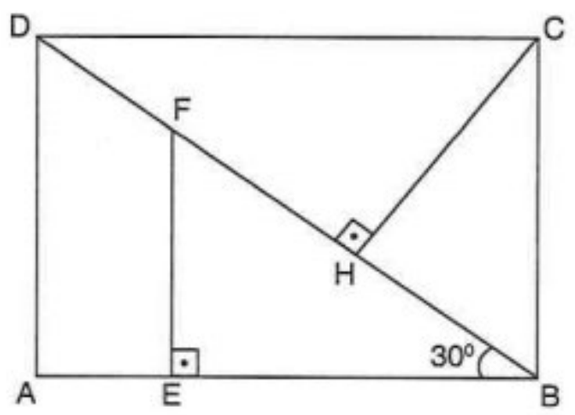


ABCD dikdörtgen (*rectangle*)
AEKF kare (*square*)
$m(\widehat{ADB}) = 30°$
$|AF| = 3\sqrt{3}$ br

⇒ **$|KB| = x = ?$**

A) 4 B) 6 C) 8 D) 10 E) 12

4.

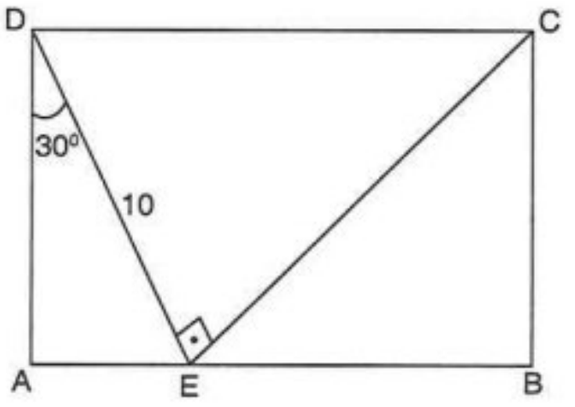


ABCD dikdörtgen (*rectangle*)
$[FE] \perp [AB]$
$[CH] \perp [DB]$
$m(\widehat{DBA}) = 30°$
$|EF| = |CH|$
$|HB| = 2$ br

⇒ **A(FEB) = ?**

A) $16\sqrt{2}$ B) $8\sqrt{2}$ C) 16 D) $6\sqrt{3}$ E) $4\sqrt{3}$

5.

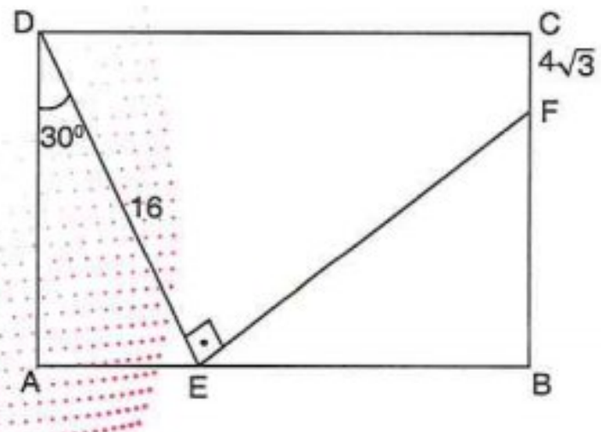


ABCD dikdörtgen (*rectangle*)
$[DE] \perp [EC]$
$|DE| = 10$ br

⇒ **A(ABCD) = ?**

A) $50\sqrt{3}$ B) 75 C) $75\sqrt{3}$ D) 100 E) $100\sqrt{3}$

6.



ABCD dikdörtgen (*rectangle*)
$[DE] \perp [EF]$
$|DE| = 16$ br
$|CF| = 4\sqrt{3}$ br
$m(\widehat{ADE}) = 30°$

⇒ **$|DC| = ?$**

A) 8 B) 14 C) 16 D) 20 E) 24

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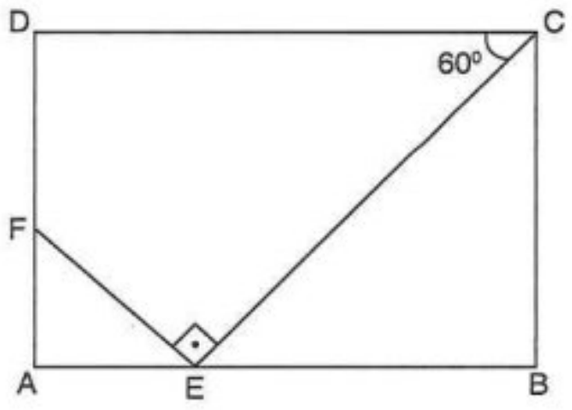
7.

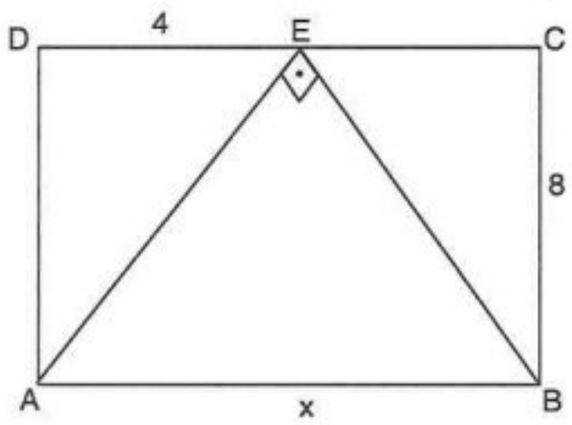


ABCD dikdörtgen
(*rectangle*)
$[FE] \perp [EC]$
$m(\widehat{DCE}) = 60°$
$|EF| = 6\sqrt{3}$ br
$|DF| = 2|AF|$

⇒ $|DC| = ?$

A) 10 B) 12 C) 14 D) 16 E) 18

8.

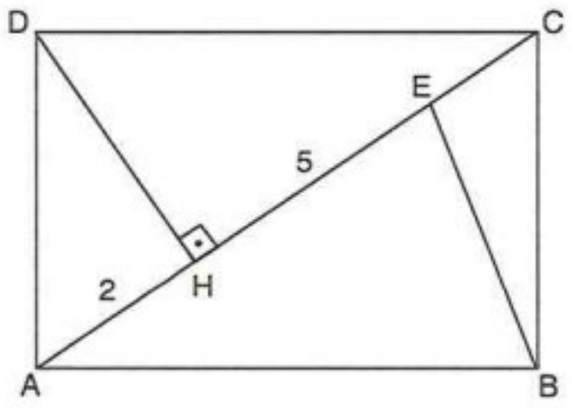


ABCD dikdörtgen
(*rectangle*)
$[AE] \perp [EB]$
$|DE| = 4$ br
$|BC| = 8$ br

⇒ $|AB| = x = ?$

A) 12 B) 14 C) 16 D) 18 E) 20

9.

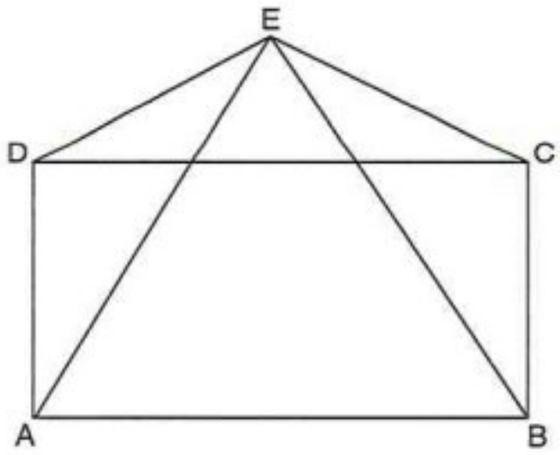


ABCD dikdörtgen
(*rectangle*)
$[DH] \perp [AC]$
$|EC| = 1$ br
$|AH| = 2$ br
$|HE| = 5$ br

⇒ $|EB| = ?$

A) $\sqrt{13}$ B) $\sqrt{15}$ C) $\sqrt{17}$ D) $\sqrt{19}$ E) $\sqrt{21}$

10.

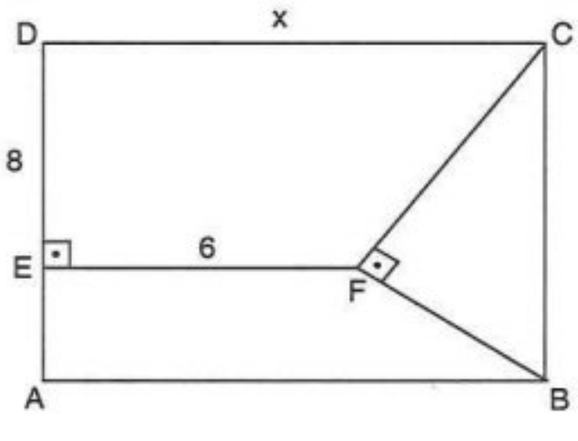


ABCD dikdörtgen
(*rectangle*)
$|EC| = 3$ br
$|AE| = 6$ br
$|EB| = 5$ br

⇒ $|DE| = ?$

A) $2\sqrt{5}$ B) $2\sqrt{6}$ C) $2\sqrt{7}$ D) $3\sqrt{5}$ E) $3\sqrt{6}$

11.

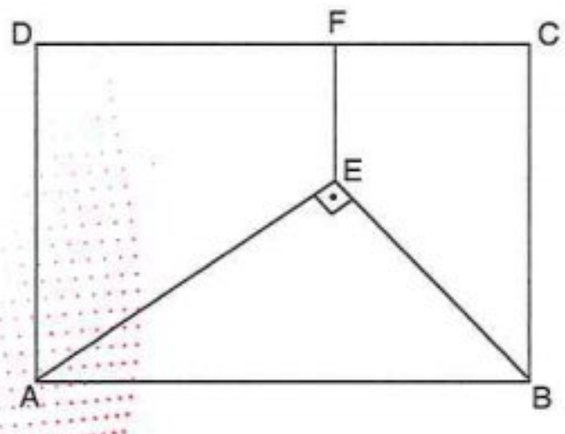


ABCD dikdörtgen
(*rectangle*)
$[EF] \perp [AD]$
$[BF] \perp [FC]$
$|AE| = 2$ br
$|EF| = 6$ br
$|DE| = 8$ br

⇒ $|DC| = x = ?$

A) 6 B) 7 C) 8 D) 10 E) 12

12.



ABCD dikdörtgen
(*rectangle*)
$[AE] \perp [EB]$
$[FE] \parallel [AD]$
$|FC| = 4$ br
$|EF| = 6$ br
$|DF| = 9$ br

⇒ $|AD| = x = ?$

A) 10 B) 12 C) 14 D) 16 E) 18

1. B	2. C	3. B	4. D	5. E	6. D
7. E	8. E	9. A	10. A	11. D	12. B

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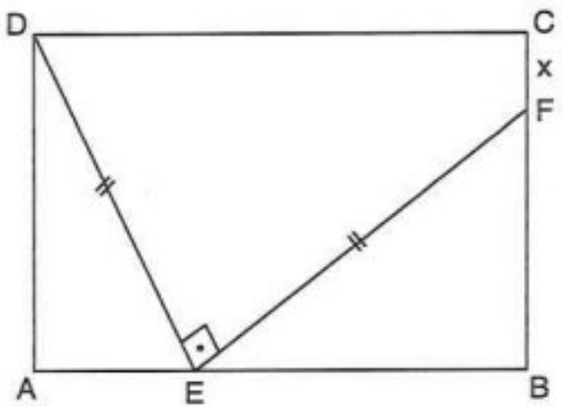
1.

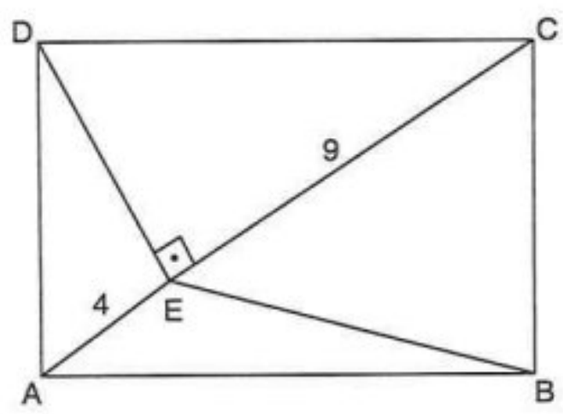


ABCD dikdörtgen (*rectangle*)
$[DE] \perp [EF]$
$|DE| = |EF|$
$|AE| = 6$ br
$|EB| = 14$ br

⇒ $|FC| = x = ?$

A) 5 B) 6 C) 8 D) 10 E) 12

2.

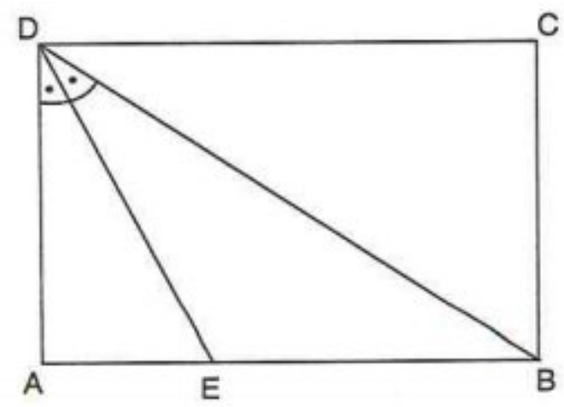


ABCD dikdörtgen (*rectangle*)
$[DE] \perp [AC]$
$|AE| = 4$ br
$|EC| = 9$ br

⇒ $|EB| = ?$

A) $3\sqrt{5}$ B) $2\sqrt{15}$ C) $\sqrt{61}$ D) 8 E) $\sqrt{69}$

3.

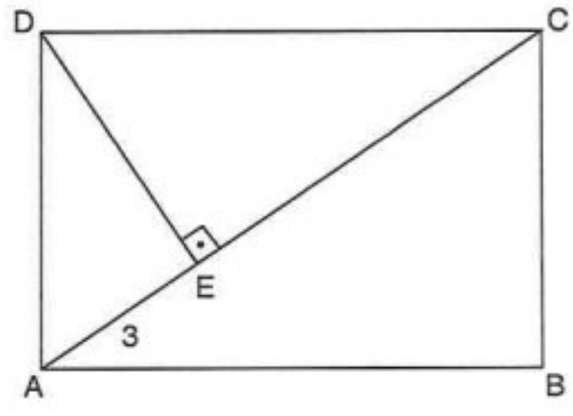


ABCD dikdörtgen (*rectangle*)
$m(\widehat{ADE}) = m(\widehat{EDB})$
$|EB| = 2|AE|$
$|AD| = 4$ br

⇒ $|AE| = ?$

A) $\frac{\sqrt{3}}{3}$ B) $\frac{2\sqrt{3}}{3}$ C) $\sqrt{3}$ D) $\frac{4\sqrt{3}}{3}$ E) $2\sqrt{3}$

4.

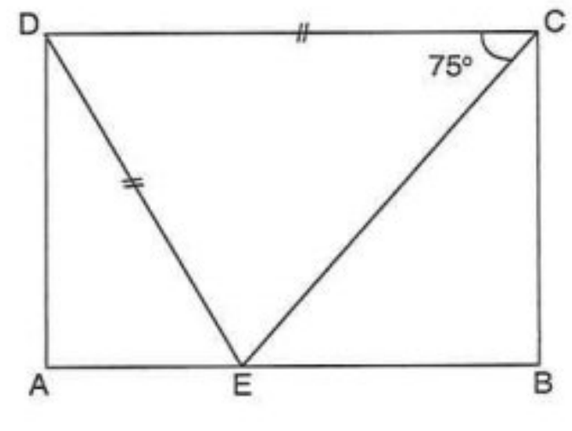


ABCD dikdörtgen (*rectangle*)
$[DE] \perp [AC]$
$|AE| = 3$ br
$|AC| = 12$ br

⇒ **A(ABCD) = ?**

A) $24\sqrt{3}$ B) 36 C) 72 D) 90 E) $336\sqrt{3}$

5.

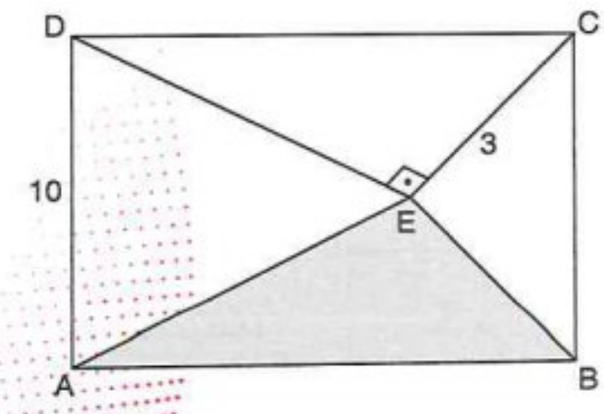


ABCD dikdörtgen (*rectangle*)
$m(\widehat{DCE}) = 75°$
$|DE| = |DC|$
$|AD| = 6$ br

⇒ **Ç(ABCD) = ?**

A) 64 B) 60 C) 54 D) 36 E) 40

6.



ABCD dikdörtgen (*rectangle*)
$[DE] \perp [EC]$
$|EC| = 3$ br
$|DE| = 4$ br
$|AD| = 10$ br

⇒ **A(AEB) = ?**

A) 13 B) 15 C) 17 D) 19 E) 21

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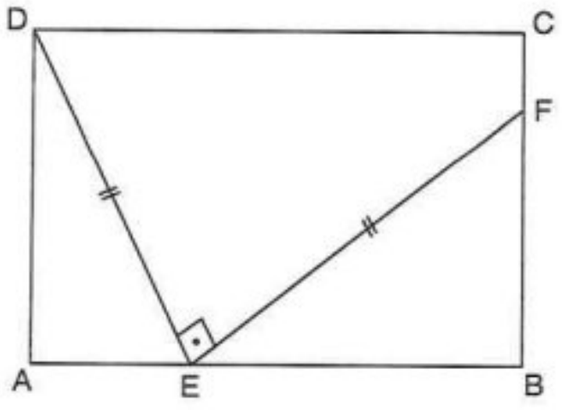
7.



ABCD dikdörtgen (*rectangle*)

$[DE] \perp [EF]$

$|DE| = |EF|$

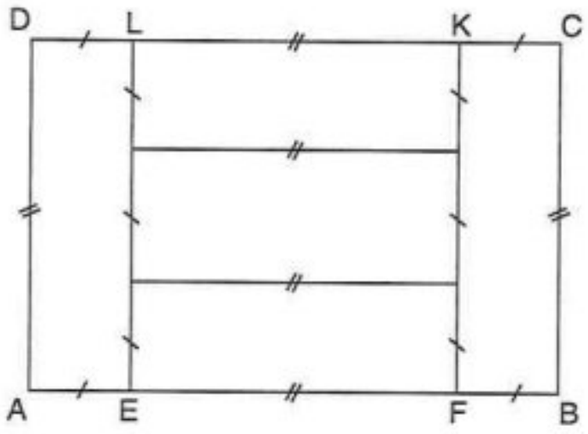
$|CF| = 3\,br$

$|AB| = 11\,br$

⇒ **Ç(ABCD) = ?**

A) 28 B) 30 C) 32 D) 34 E) 36

8.



ABCD dikdörtgen (*rectangle*)

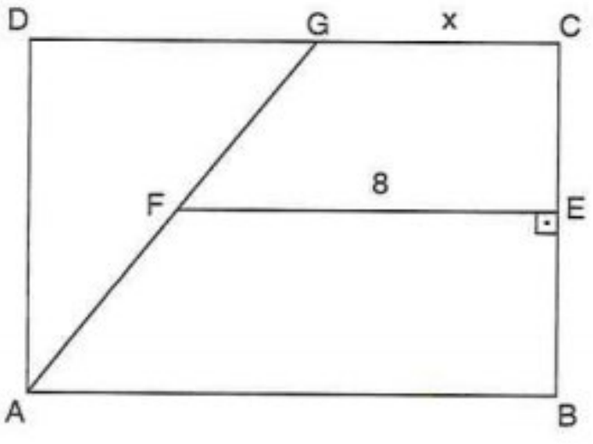
$|AD| = 3|AE|$

$|AB| = 30\,br$

⇒ **A(ABCD) = ?**

A) 520 B) 530 C) 540 D) 530 E) 560

9.



ABCD dikdörtgen (*rectangle*)

$[FE] \perp [BC]$

$|AF| = 2|FG|$

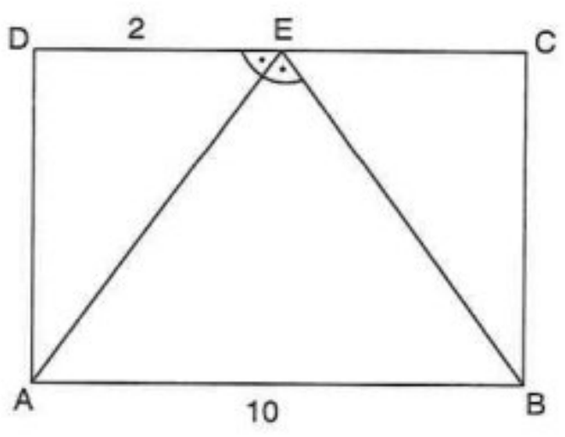
$|DG| = 6\,br$

$|FE| = 8\,br$

⇒ **|GC| = x = ?**

A) 2 B) 3 C) 4 D) 5 E) 6

10.



ABCD dikdörtgen (*rectangle*)

$m(\widehat{DEA}) = m(\widehat{AEB})$

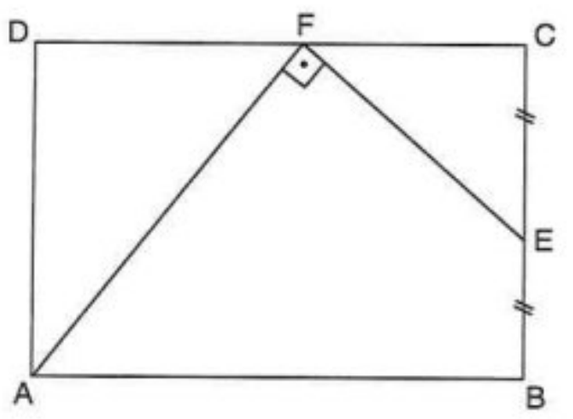
$|DE| = 2\,br$

$|AB| = 10\,br$

⇒ **|AD| = ?**

A) 4 B) 5 C) 6 D) 7 E) 8

11.



ABCD dikdörtgen (*rectangle*)

$[AF] \perp [FE]$

$|CE| = |EB|$

$|AB| = 12\,br$

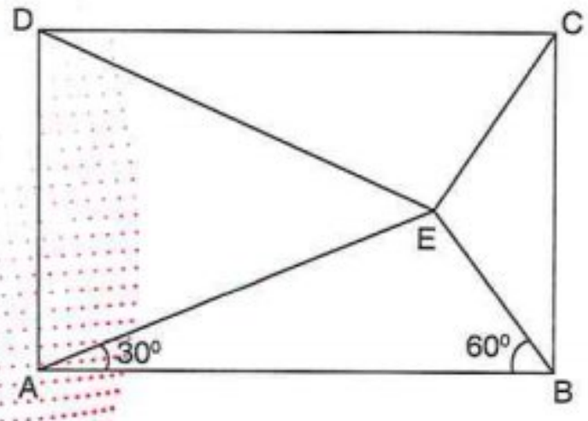
$|AD| = 8\,br$

$|FC| < |DF|$

⇒ **|AF| = ?**

A) 10 B) $5\sqrt{6}$ C) $8\sqrt{2}$ D) $4\sqrt{3}$ E) $6\sqrt{2}$

12.



ABCD dikdörtgen (*rectangle*)

$m(\widehat{EAB}) = 30°$

$m(\widehat{EBA}) = 60°$

$|AB| = 16\,br$

$|DE| = \sqrt{153}\,br$

⇒ **|EC| = ?**

A) 11 B) 9 C) 7 D) 5 E) 3

1. C	2. C	3. D	4. E	5. D	6. D
7. E	8. C	9. E	10. C	11. C	12. D

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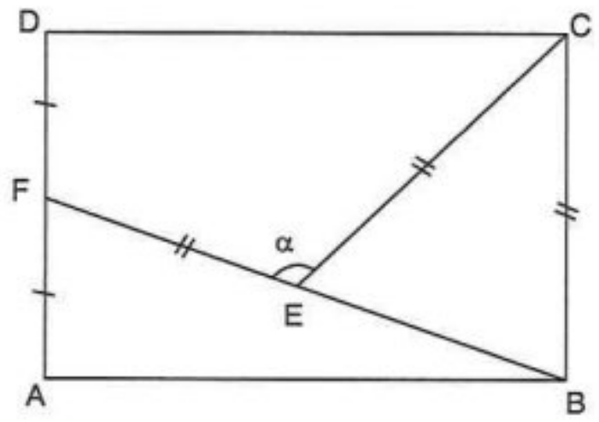
1.



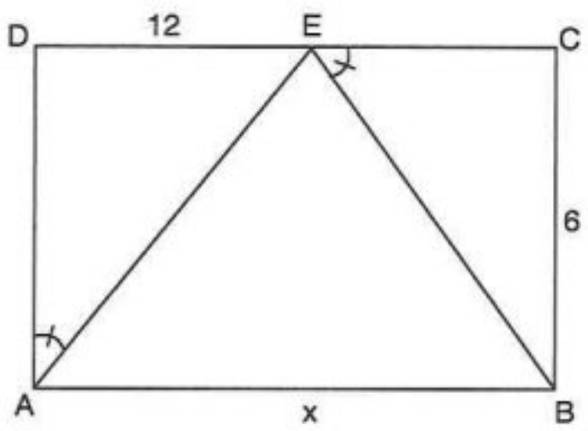
ABCD dikdörtgen (*rectangle*)

$|BC| = |CE| = |EF|$

$\Rightarrow m(\widehat{FEC}) = \alpha = ?$

A) 90° B) 100° C) 108° D) 135° E) 144°

2.



ABCD dikdörtgen (*rectangle*)

$m(\widehat{DAE}) = m(\widehat{CEB})$

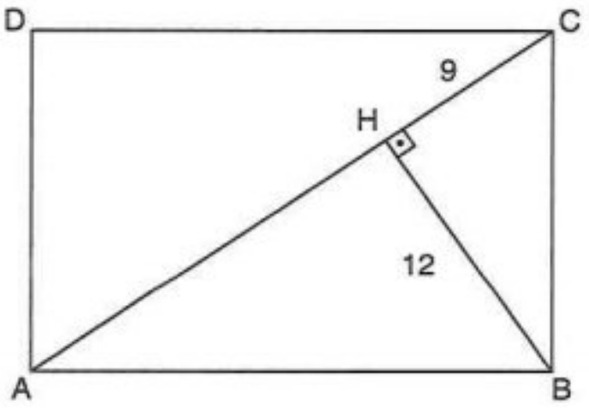
$|BC| = 6$ br

$|DE| = 12$ br

$\Rightarrow |AB| = x = ?$

A) 10 B) 13 C) 14 D) 15 E) 17

3.



ABCD dikdörtgen (*rectangle*)

$[BH] \perp [AC]$

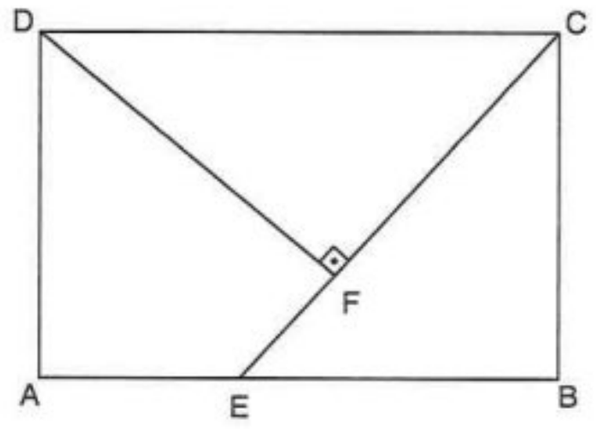
$|BH| = 12$ br

$|HC| = 9$ br

$\Rightarrow A(ABCD) = ?$

A) 75 B) 100 C) 150 D) 200 E) 300

4.



ABCD dikdörtgen (*rectangle*)

$[DF] \perp [EC]$

$|DF| = 20$ br

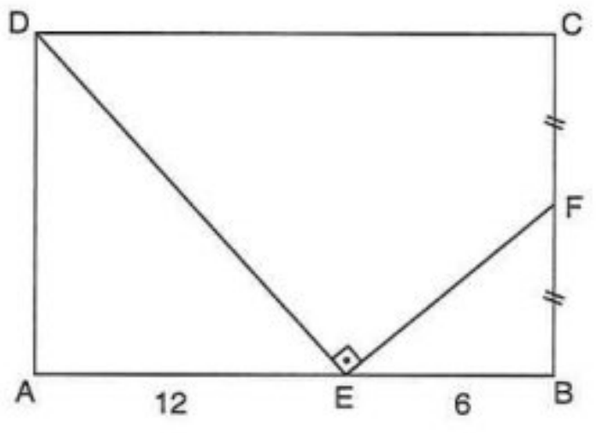
$|DC| = 25$ br

$|BC| = 16$ br

$\Rightarrow |AE| + |EF| = ?$

A) 12 B) 15 C) 18 D) 21 E) 24

5.



ABCD dikdörtgen (*rectangle*)

$[DE] \perp [EF]$

$|BF| = |FC|$

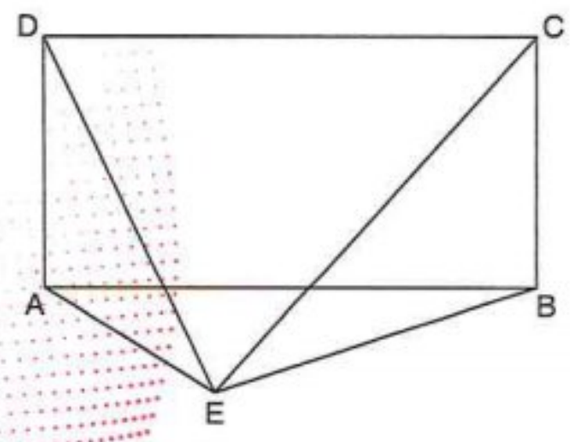
$|AE| = 12$ br

$|EB| = 6$ br

$\Rightarrow A(ABCD) = ?$

A) 144 B) 196 C) 216 D) 244 E) 260

6.



ABCD dikdörtgen (*rectangle*)

$|BE| = \sqrt{26}$ br

$|AE| = 3$ br

$|CE| = 9$ br

$\Rightarrow |DE| = ?$

A) 8 B) $\sqrt{65}$ C) $\sqrt{66}$ D) $\sqrt{67}$ E) $2\sqrt{17}$

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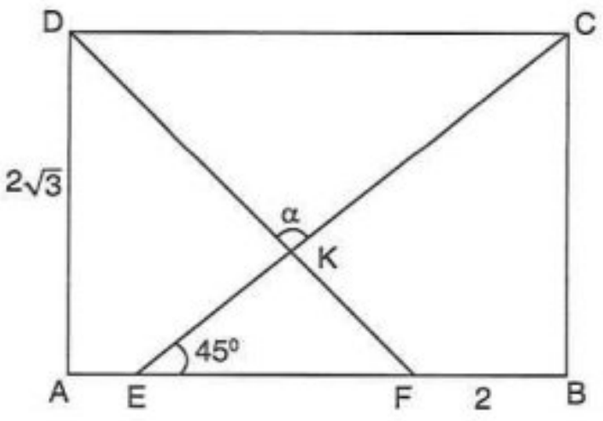
7.

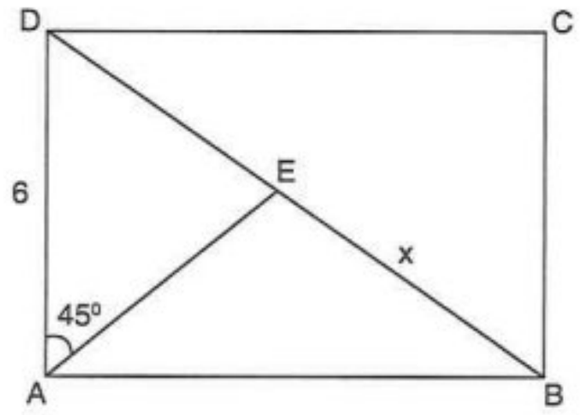


ABCD dikdörtgen (*rectangle*)
$m(\widehat{CEB}) = 45°$
$|BF| = 2$ br
$|AD| = 2\sqrt{3}$ br
$|DC| = 4$ br

$\Rightarrow m(\widehat{DKC}) = \alpha = ?$

A) 90° B) 75° C) 60° D) 45° E) 30°

8.

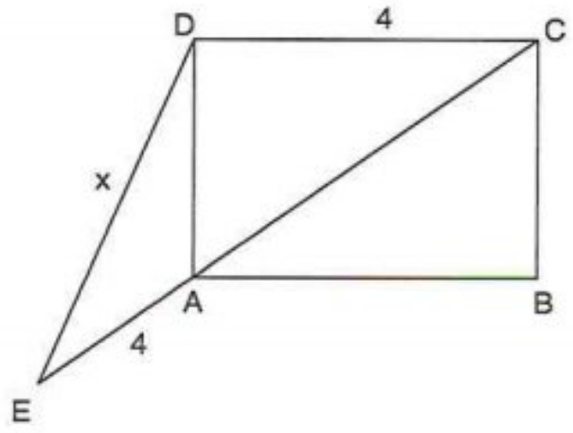


ABCD dikdörtgen (*rectangle*)
$m(\widehat{DAE}) = 45°$
$|AD| = 6$ br
$|AB| = 8$ br

$\Rightarrow |EB| = x = ?$

A) $\frac{37}{7}$ B) $\frac{38}{7}$ C) $\frac{39}{7}$ D) $\frac{40}{7}$ E) $\frac{41}{7}$

9.

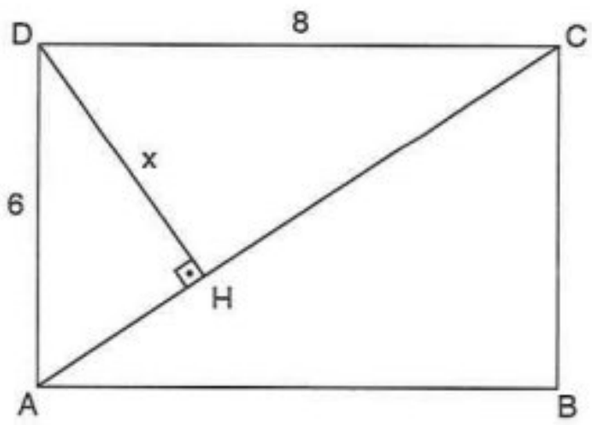


ABCD dikdörtgen (*rectangle*)
$|AC| = 2|AE|$
$|AE| = |DC| = 4$ br

$\Rightarrow |ED| = x = ?$

A) $4\sqrt{3}$ B) $4\sqrt{6}$ C) $4\sqrt{7}$ D) $8\sqrt{2}$ E) $8\sqrt{3}$

10.

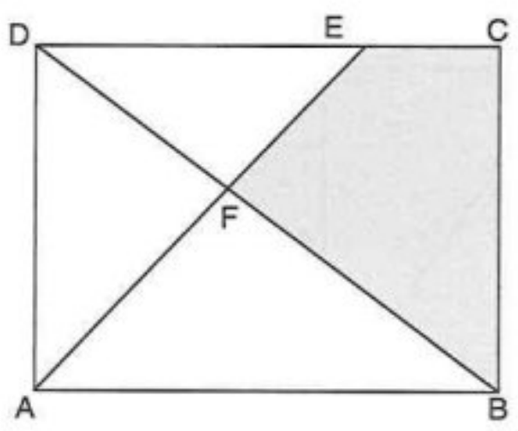


ABCD dikdörtgen (*rectangle*)
$[DH] \perp [AC]$
$|AD| = 6$ br
$|DC| = 8$ br

$\Rightarrow |DH| = x = ?$

A) 3,6 B) 3,9 C) 4,2 D) 4,8 E) 5,4

11.

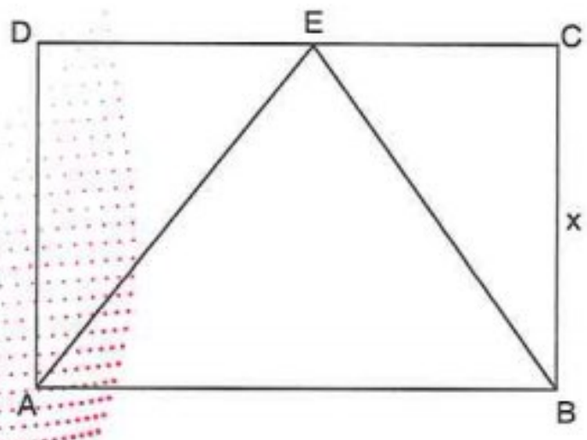


ABCD dikdörtgen (*rectangle*)
$|DE| = 4|EC|$
$A(DFE) + A(ABF) = 41 br^2$

$\Rightarrow A(BCEF) = ?$

A) 25 B) 26 C) 27 D) 28 E) 29

12.



ABCD dikdörtgen (*rectangle*)
$|AE| = |EB| = |AB|$
$A(ABCD) = 48\sqrt{3}$ br²

$\Rightarrow |BC| = x = ?$

A) $8\sqrt{2}$ B) $6\sqrt{2}$ C) $4\sqrt{2}$ D) $3\sqrt{2}$ E) $2\sqrt{2}$

1. C	2. D	3. E	4. C	5. C	6. A
7. B	8. D	9. C	10. D	11. E	12. B

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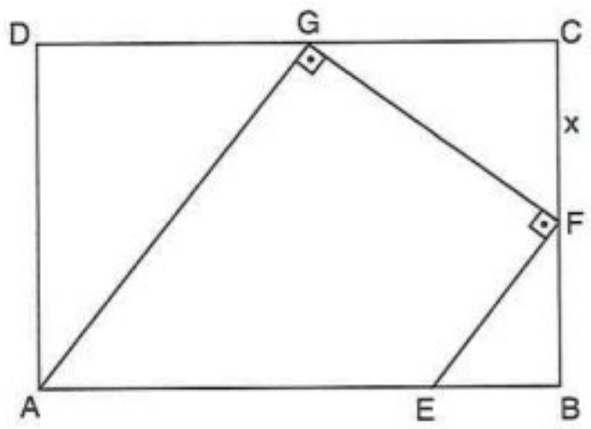
1.

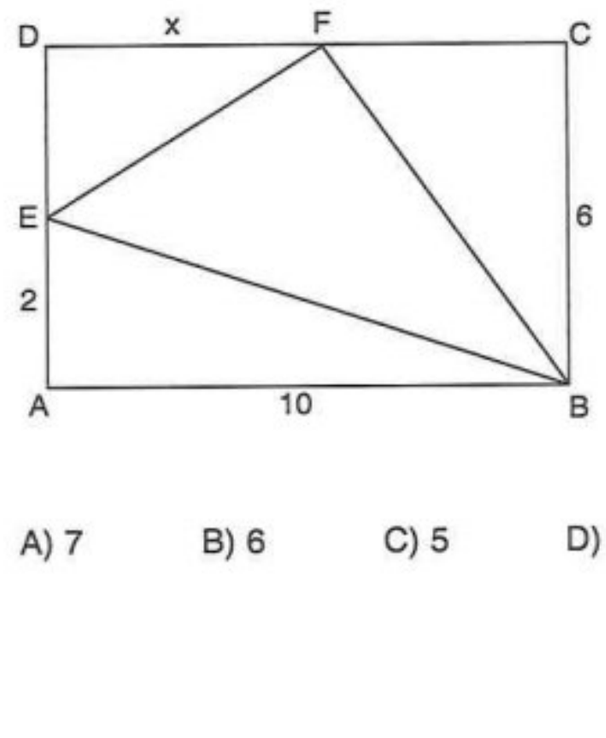


ABCD dikdörtgen (*rectangle*)
$[AG] \perp [GF]$
$[GF] \perp [FE]$
$m(\widehat{DAG}) = m(\widehat{GAB})$
$|AE| = 5\,br$

⇒ **$|CF| = x = ?$**

A) 1 B) 2 C) 2,5 D) 3 E) 3,5

2.

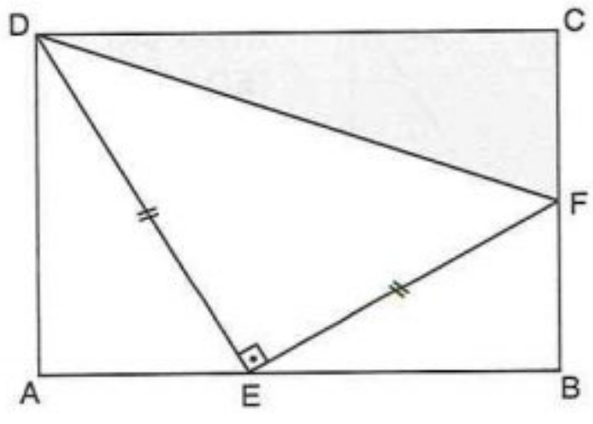


ABCD dikdörtgen (*rectangle*)
$|AE| = 2\,br$
$|BC| = 6\,br$
$|AB| = 10\,br$
$A(EBF) = 27\,br^2$

⇒ **$|DF| = x = ?$**

A) 7 B) 6 C) 5 D) 4 E) 3

3.

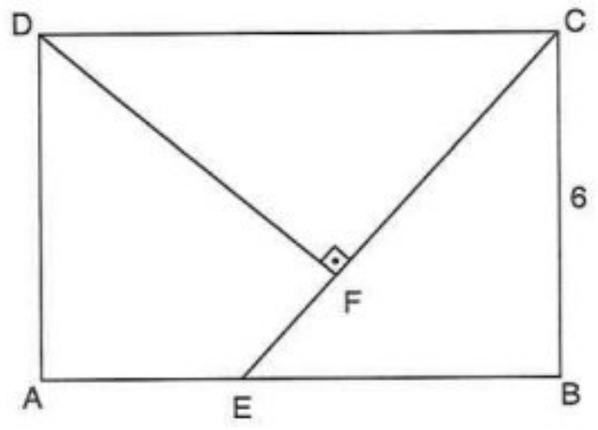


ABCD dikdörtgen (*rectangle*)
$[DE] \perp [EF]$
$|DE| = |EF|$
$|AE| = 6\,br$
$|EB| = 8\,br$

⇒ **A(DCF) = ?**

A) 14 B) 15 C) 16 D) 17 E) 18

4.

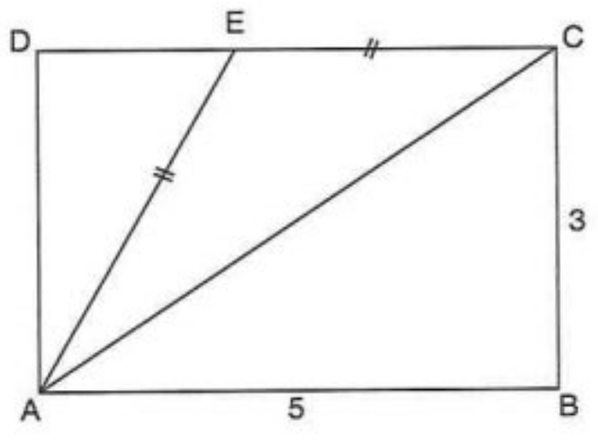


ABCD dikdörtgen (*rectangle*)
$[DF] \perp [EC]$
$|BC| = 6\,br$
$\frac{A(EBC)}{A(DFC)} = \frac{9}{4}$

⇒ **$|DF| = ?$**

A) 6 B) 5 C) 4 D) 2 E) 1

5.

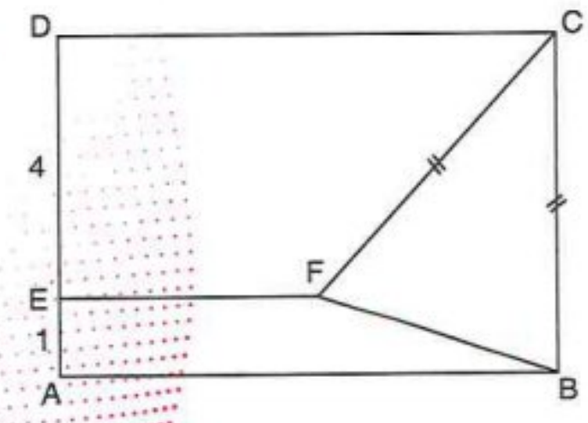


ABCD dikdörtgen (*rectangle*)
$|AE| = |EC|$
$|AB| = 5\,br$
$|BC| = 3\,br$

⇒ **A(AEC) = ?**

A) $\frac{17}{5}$ B) $\frac{19}{5}$ C) $\frac{51}{10}$ D) $\frac{28}{5}$ E) $\frac{57}{10}$

6.



ABCD dikdörtgen (*rectangle*)
$[EF] \perp [AD]$
$|FC| = |CB|$
$|DE| = |EF| = 4\,br$
$|EA| = 1\,br$

⇒ **A(ABCD) = ?**

A) 20 B) 25 C) 30 D) 35 E) 40

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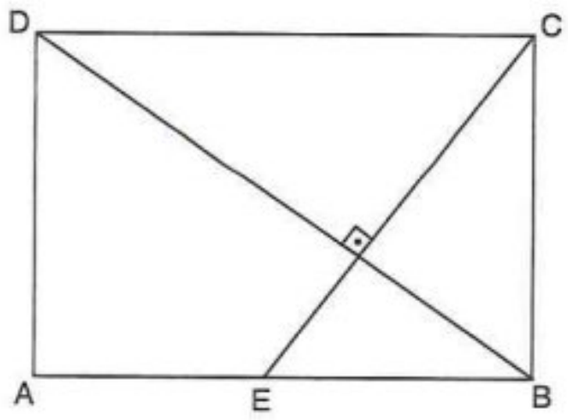
7.

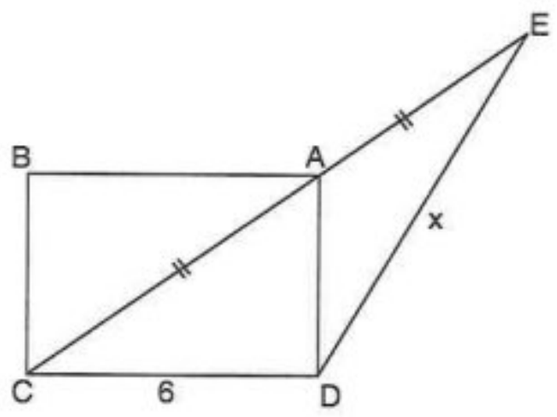


ABCD dikdörtgen (*rectangle*)
$[DB] \perp [EC]$
$|AD| = 6$ br
$|AE| = 5$ br

⇒ **Ç(ABCD) = ?**

A) 24 B) 26 C) 28 D) 30 E) 32

8.

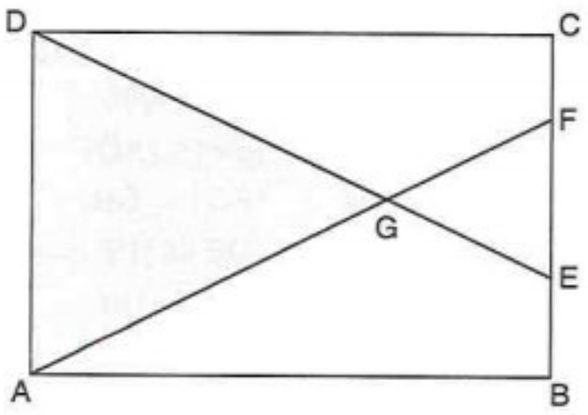


ABCD dikdörtgen (*rectangle*)
$|EA| = |AC|$
$2|BC| = |DC| = 6$ br

⇒ **$|ED| = x = ?$**

A) $3\sqrt{2}$ B) $3\sqrt{5}$ C) $6\sqrt{2}$ D) $6\sqrt{5}$ E) 12

9.

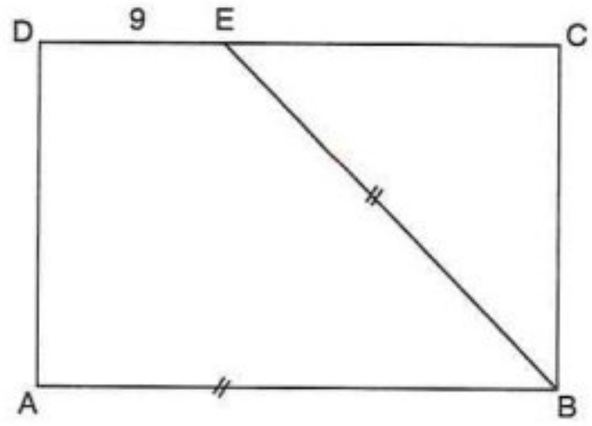


ABCD dikdörtgen (*rectangle*)
$|EF| = 3|CF| = 3|EB|$
$|BC| = 5$ br
$|AB| = 16$ br

⇒ **A(AGD) = ?**

A) 10 B) 15 C) 20 D) 25 E) 30

10.

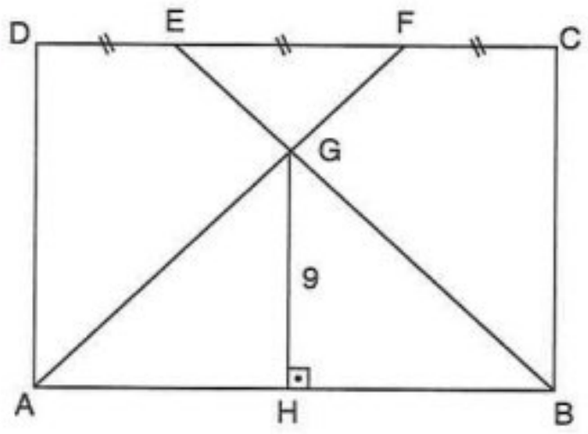


ABCD dikdörtgen (*rectangle*)
$|AB| = |EB|$
$|AD| = 15$ br
$|DE| = 9$ br

⇒ **$|AB| = ?$**

A) 15 B) 17 C) 19 D) 21 E) 23

11.

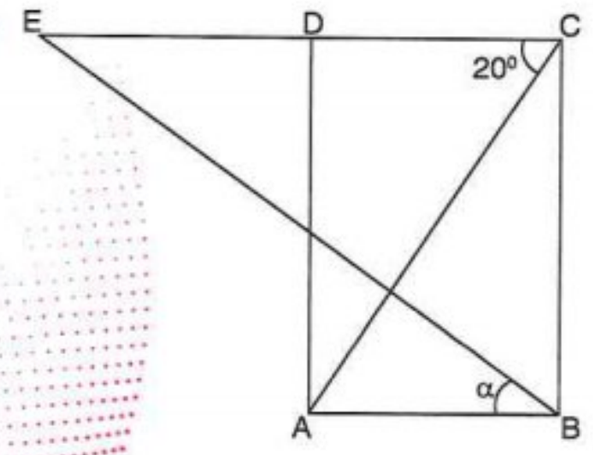


ABCD dikdörtgen (*rectangle*)
$[GH] \perp [AB]$
$|DE| = |EF| = |FC|$
$|GH| = 9$ br
$|AB| = 18$ br

⇒ **A(EFG) = ?**

A) 6 B) 9 C) 12 D) 15 E) 18

12.



ABCD dikdörtgen (*rectangle*)
$|ED| = |AC|$
$m(\widehat{ECA}) = 20°$

⇒ **$m(\widehat{EBA}) = \alpha = ?$**

A) 30 B) 25 C) 20 D) 15 E) 10

1. C	2. A	3. A	4. C	5. C	6. D
7. D	8. C	9. D	10. B	11. B	12. E

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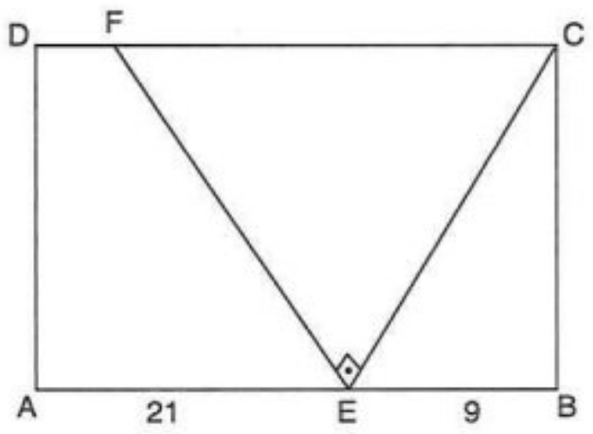
1.

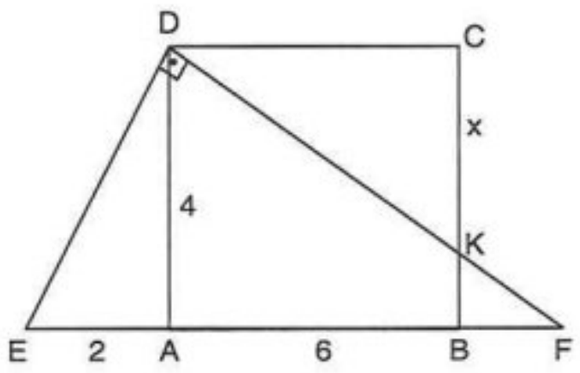


ABCD dikdörtgen
(*rectangle*)
$[EF] \perp [EC]$
$|EB| = 9\,br$
$|BC| = 12\,br$
$|AE| = 21\,br$

⇒ **$|DF| = ?$**

A) 3 B) 4 C) 5 D) 6 E) 7

2.

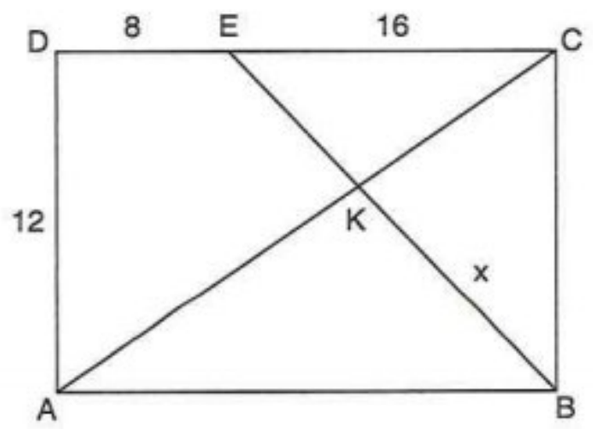


ABCD dikdörtgen
(*rectangle*)
$[DE] \perp [DF]$
$|AE| = 2\,br$
$|AD| = 4\,br$
$|AB| = 6\,br$

⇒ **$|KC| = x = ?$**

A) 3 B) $\frac{5}{2}$ C) 2 D) $\frac{3}{2}$ E) 1

3.

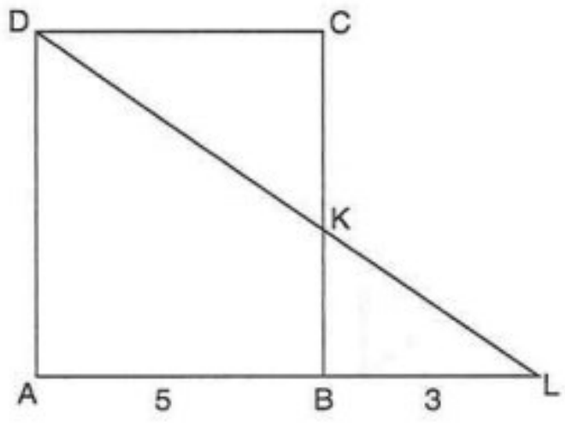


ABCD dikdörtgen
(*rectangle*)
$|DE| = 8\,br$
$|AD| = 12\,br$
$|EC| = 16\,br$

⇒ **$|BK| = x = ?$**

A) 6 B) 8 C) 11 D) 12 E) 13

4.

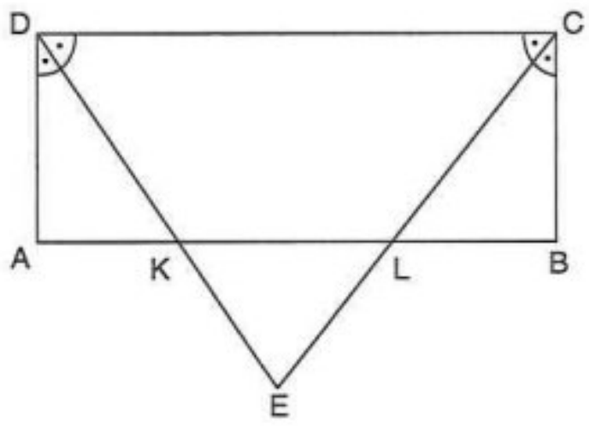


ABCD dikdörtgen
(*rectangle*)
$|BL| = 3\,br$
$|AB| = 5\,br$
$|AD| = 16\,br$

⇒ **A(KBL) = ?**

A) 3 B) 6 C) 9 D) 12 E) 18

5.

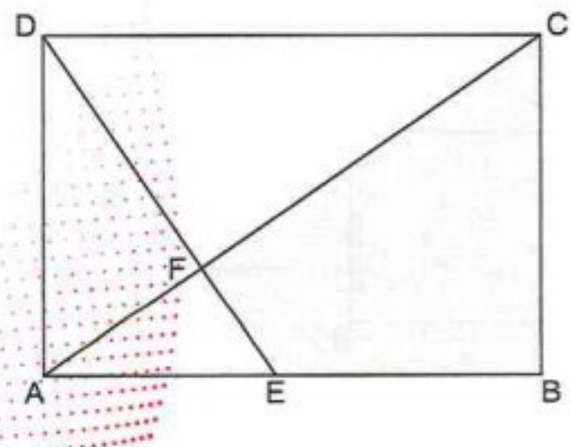


ABCD dikdörtgen
(*rectangle*)
$A(DKLC) = 4.A(DAK)$
$m(\widehat{ADE}) = m(\widehat{EDC})$
$m(\widehat{DCE}) = m(\widehat{ECB})$
$|KE| = 4\,br$

⇒ **A(DKLC) = ?**

A) 64 B) 62 C) 60 D) 56 E) 48

6.



ABCD dikdörtgen
(*rectangle*)
$3|AE| = 2|EB|$
$A(\widehat{AFE}) = 8\,br^2$

⇒ **A(CFEB) = ?**

A) 62 B) 70 C) 82 D) 90 E) 96

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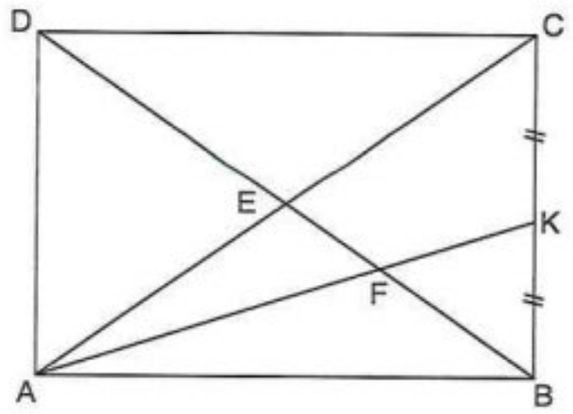
7.

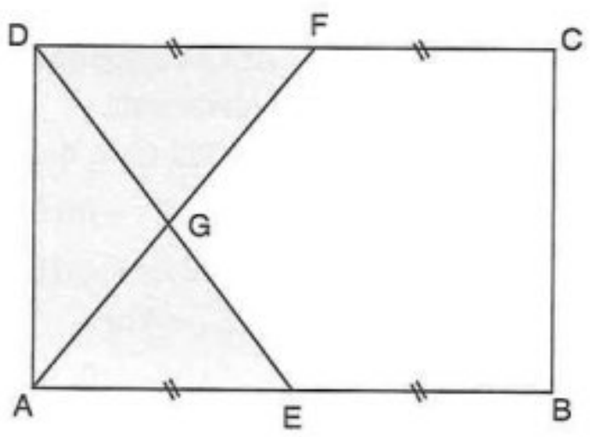


ABCD dikdörtgen
(*rectangle*)
$|CK| = |KB|$
$A(FKB) = 5\,br^2$

⇒ **$A(ABCD) = ?$**

A) 30 B) 36 C) 42 D) 48 E) 60

8.

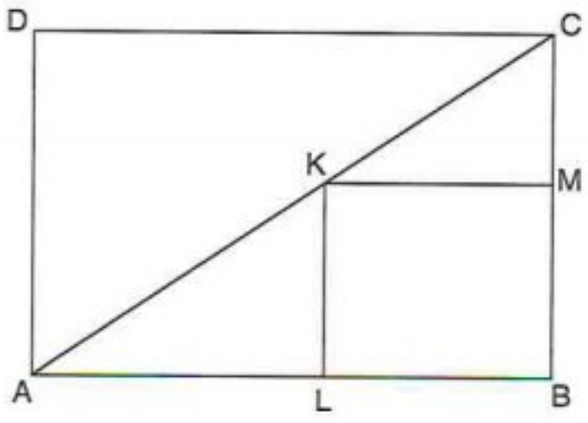


ABCD dikdörtgen
(*rectangle*)
$|AE| = |EB|$
$|DF| = |FC|$

⇒ $\frac{A(AEGFD)}{A(ABCD)} = ?$

A) $\frac{1}{8}$ B) $\frac{1}{4}$ C) $\frac{3}{8}$ D) $\frac{1}{2}$ E) $\frac{5}{8}$

9.

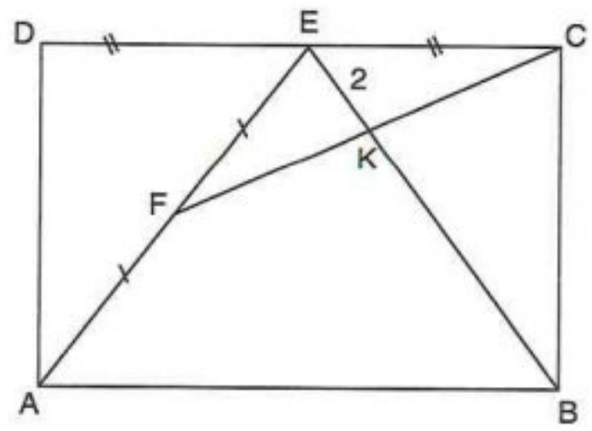


ABCD, KLBM
dikdörtgen(*rectangle*)
$|AK| = 3|KC|$

⇒ $\frac{A(KLBM)}{A(ACD)} = ?$

A) 6 B) $\frac{9}{2}$ C) 3 D) $\frac{3}{8}$ E) $\frac{3}{16}$

10.

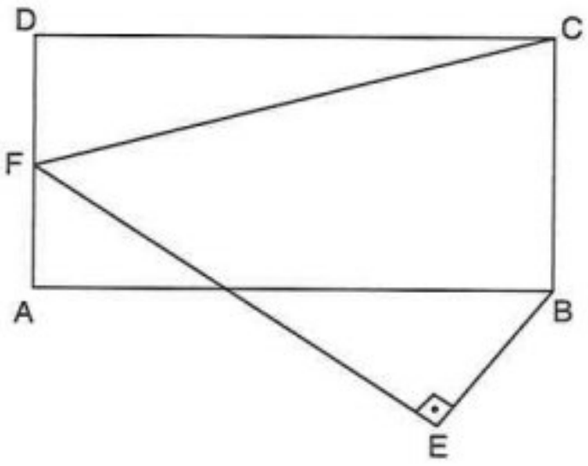


ABCD dikdörtgen
(*rectangle*)
$|DE| = |EC|$
$|AF| = |FE|$
$|EK| = 2\,br$

⇒ **$|AE| = ?$**

A) 6 B) 7 C) 8 D) 9 E) 10

11.

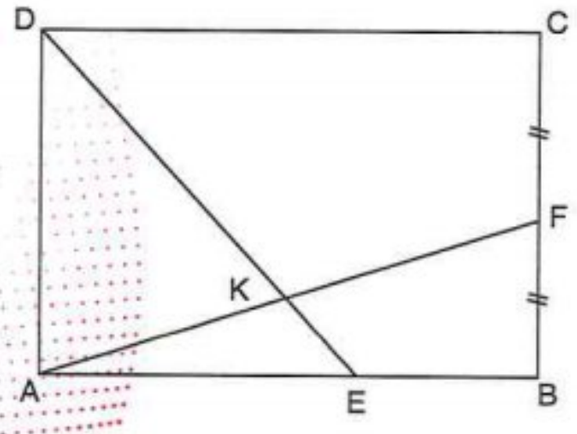


ABCD dikdörtgen
(*rectangle*)
$[FE] \perp [EB]$
$|DF| = |AF|$
$|FC| = 7\,br$
$|BE| = 1br$

⇒ **$|FE| = ?$**

A) 6 B) $2\sqrt{10}$ C) $3\sqrt{5}$ D) $4\sqrt{3}$ E) 8

12.



ABCD dikdörtgen
(*rectangle*)
$|BF| = |FC|$
$3|EB| = |AB|$
$|DK| = 24\,br$

⇒ **$|KE| = ?$**

A) 12 B) 8 C) 6 D) 4 E) 3

1. C	2. A	3. D	4. C	5. A	6. A
7. E	8. C	9. D	10. C	11. D	12. B

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KARE SQUARE

KONU KAVRAMA TESTİ
Thread Grip Test

ZİHİN HARİTASI
Mind Map

4 TEST
Tests

72 SORU
Questions

CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS

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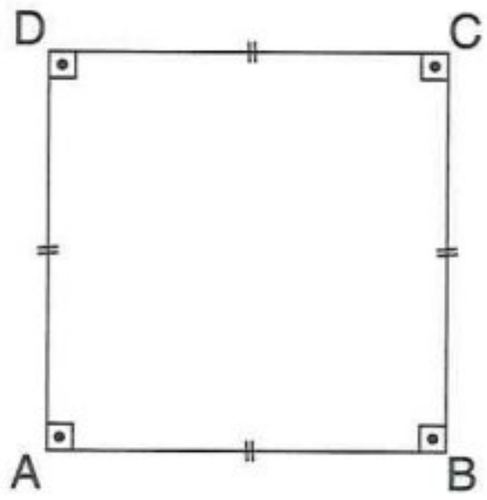
KARE
SQUARE

CANER
eğitim kurumları

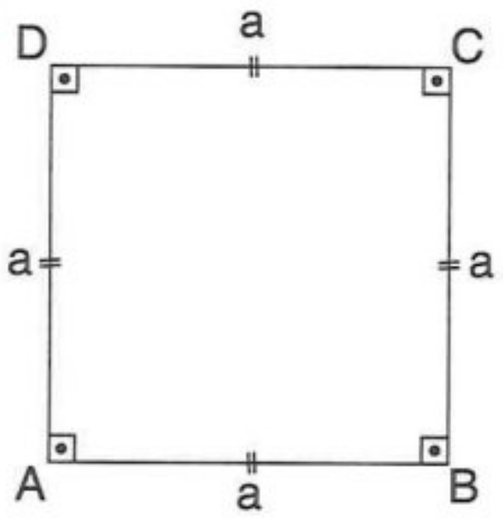
1.



$|AB| = |BC| = |CD| = |AD|$

$m(\widehat{A}) = m(\widehat{B}) = m(\widehat{C}) = m(\widehat{D}) = 90°$

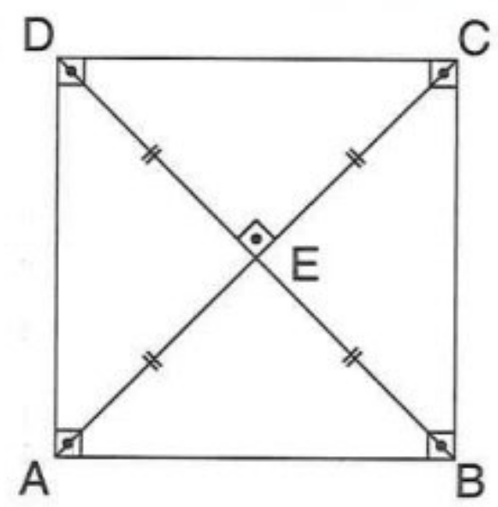
2.



Ç(ABCD) = 4a

$A(ABCD) = a^2$

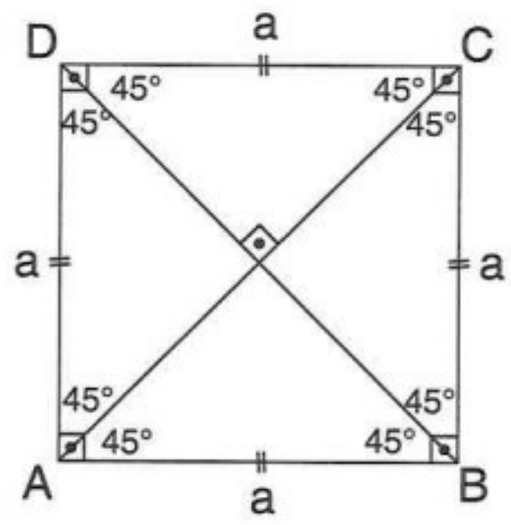
3.



$[AC] \perp [BD]$ $\quad |BD| = |AC|$

$|AE| = |BE| = |CE| = |DE|$

4.



[AC], [BD] açıortay (bisector)

$|AC| = |BD| = a\sqrt{2}$

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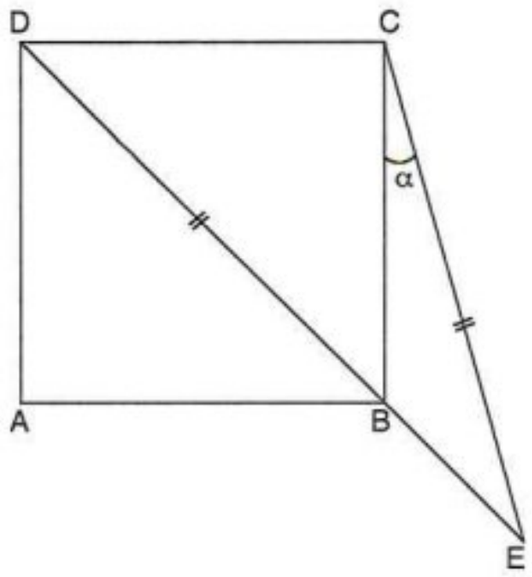
1.



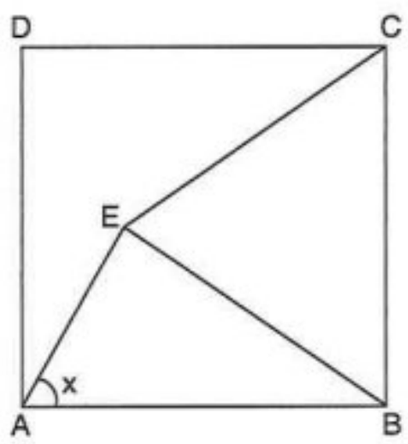
ABCD kare (*square*)

$|DB| = |CE|$

$\Rightarrow m(\widehat{BCE}) = \alpha = ?$

A) 10° B) 15° C) 20° D) 25° E) 30°

2.



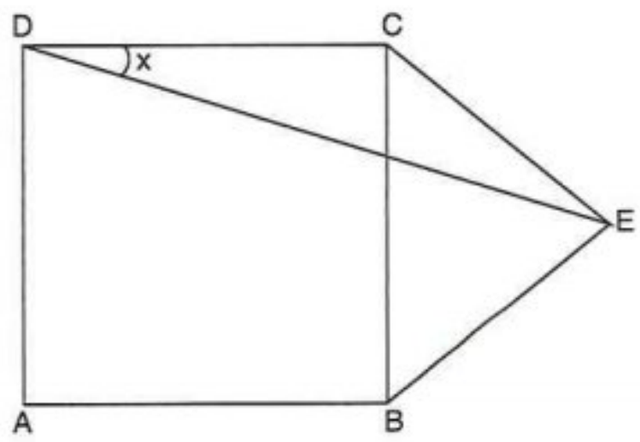
ABCD kare (*square*)

EBC eşkenar üçgen (*equilateral triangle*)

$\Rightarrow m(\widehat{EAB}) = x = ?$

A) 30° B) 45° C) 55° D) 60° E) 75°

3.



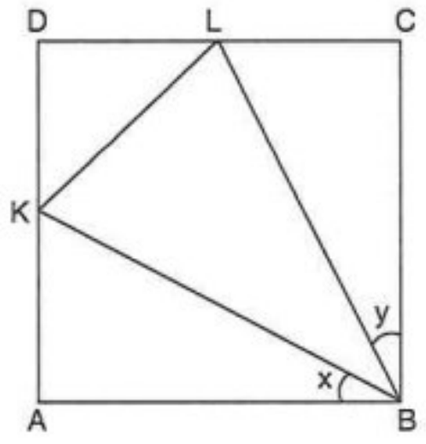
ABCD kare (*square*)

CBE eşkenar üçgen (*equilateral triangle*)

$\Rightarrow m(\widehat{CDE}) = x = ?$

A) 5° B) 10° C) 15° D) 20° E) 25°

4.



ABCD kare (*square*)

$|BL| = |BK|$

$m(\widehat{ABK}) = x$

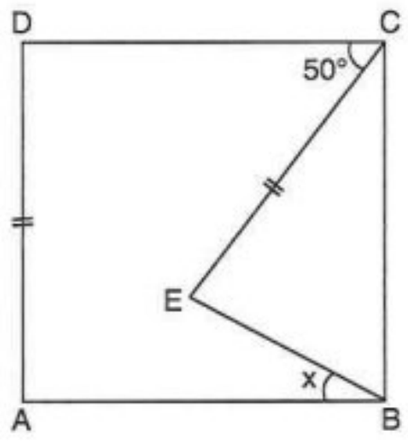
$m(\widehat{LBC}) = y$

$x + y = 50°$

$\Rightarrow m(\widehat{LKB}) = ?$

A) 40° B) 50° C) 60° D) 70° E) 80°

5.



ABCD kare (*square*)

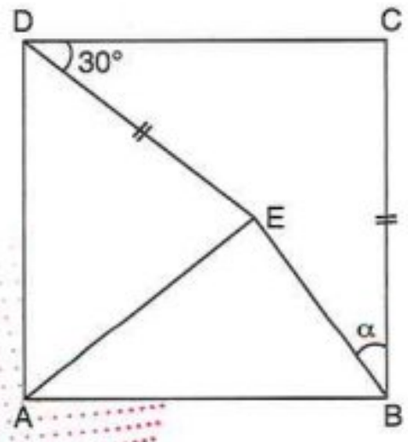
$|AD| = |EC|$

$m(\widehat{DCE}) = 50°$

$\Rightarrow m(\widehat{ABE}) = x = ?$

A) 20° B) 30° C) 40° D) 50° E) 60°

6.



ABCD kare (*square*)

$|DE| = |BC|$

$m(\widehat{EDC}) = 30°$

$\Rightarrow m(\widehat{EDC}) = \alpha = ?$

A) 15° B) 25° C) 30° D) 45° E) 50°

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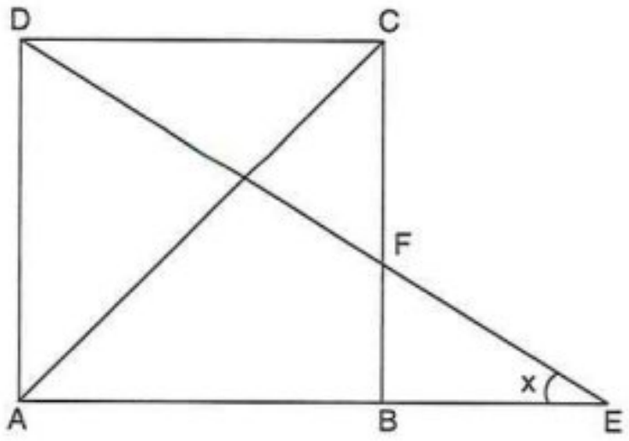
7.



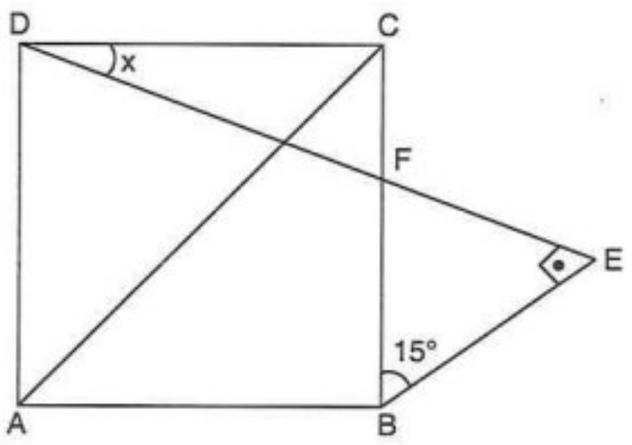
ABCD kare (*square*)

$|AC| = |BE|$

$\Rightarrow m(\widehat{DEA}) = x = ?$

A) 18,5° B) 22,5° C) 25° D) 30° E) 37,5°

8.



ABCD kare (*square*)

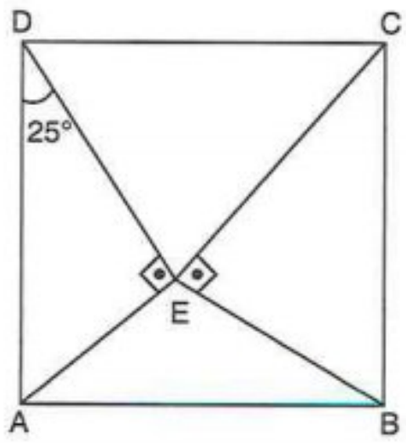
$[DE] \perp [BE]$

$m(\widehat{CBE}) = 15°$

$\Rightarrow m(\widehat{CDE}) = x = ?$

A) 10° B) 15° C) 25° D) 30° E) 45°

9.



ABCD kare (*square*)

$[AE] \perp [DE]$

$[EB] \perp [EC]$

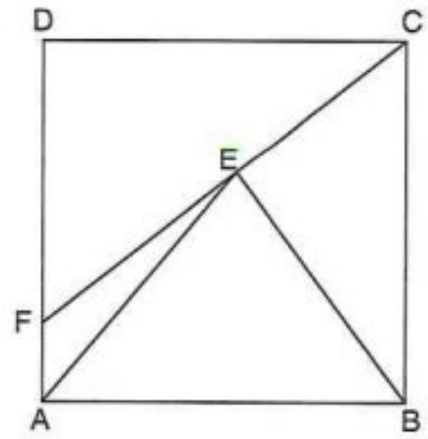
$|DE| = |EC|$

$m(\widehat{ADE}) = 25°$

$\Rightarrow m(\widehat{DEC}) = ?$

A) 25° B) 40° C) 50° D) 55° E) 65°

10.



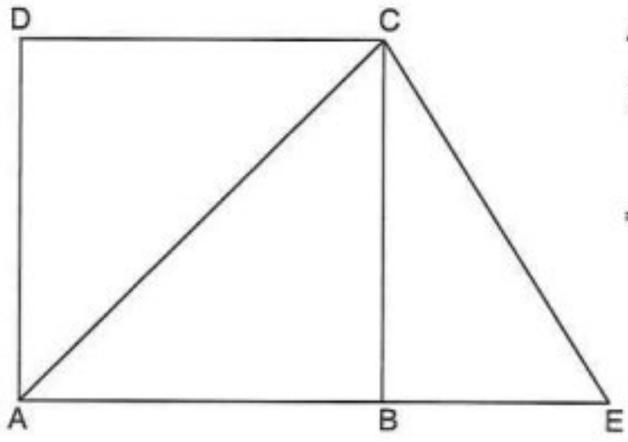
ABCD kare (*square*)

AEB eşkenar üçgen (*equilateral triangle*)

$\Rightarrow m(\widehat{FEA}) = ?$

A) 30° B) 45° C) 50° D) 60° E) 75°

11.



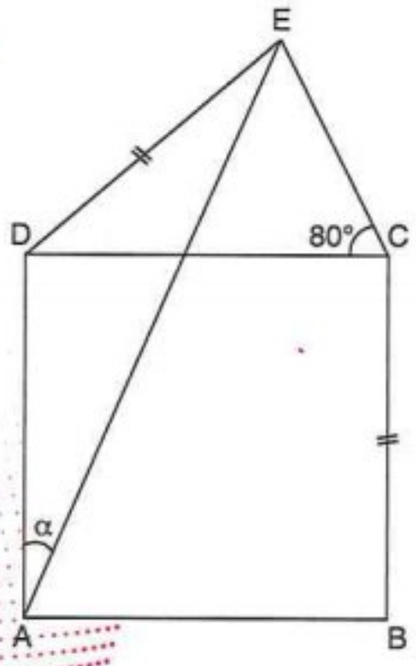
ABCD kare (*square*)

$2m(\widehat{BCE}) = m(\widehat{BEC})$

$\Rightarrow m(\widehat{ACE}) = ?$

A) 50° B) 60° C) 75° D) 80° E) 85°

12.



ABCD kare (*square*)

$|DE| = |BC|$

$m(\widehat{DCE}) = 80°$

$\Rightarrow m(\widehat{DAE}) = \alpha = ?$

A) 20° B) 30° C) 35° D) 40° E) 45°

1. B	2. E	3. C	4. D	5. A	6. A
7. B	8. B	9. C	10. B	11. C	12. C

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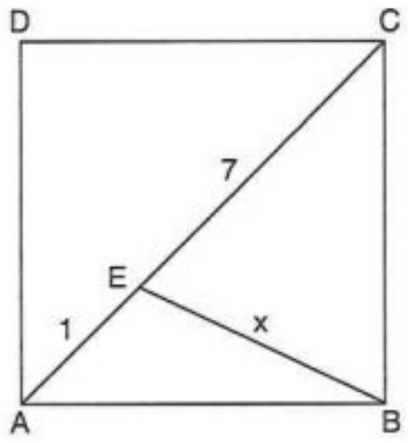
13. 

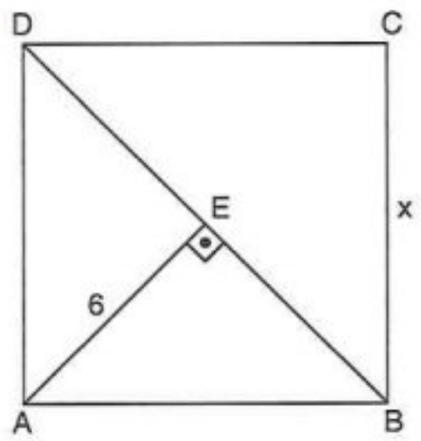
ABCD kare (*square*)

$|AE| = 1$ br

$|EC| = 7$ br

$\Rightarrow |EB| = x = ?$

A) 6 B) 5 C) 4 D) 3 E) 2

14. 

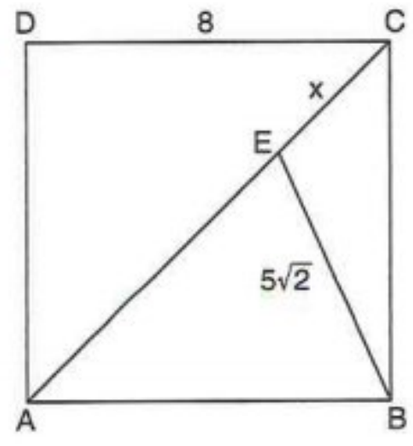
ABCD kare (*square*)

$[AE] \perp [BD]$

$|AE| = 6$ br

$\Rightarrow |BC| = x = ?$

A) $3\sqrt{5}$ B) $4\sqrt{3}$ C) $6\sqrt{2}$ D) $6\sqrt{3}$ E) $6\sqrt{5}$

15. 

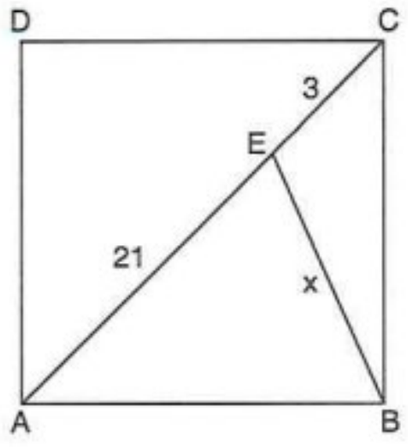
ABCD kare (*square*)

$|EB| = 5\sqrt{2}$ br

$|DC| = 8$ br

$\Rightarrow |EC| = x = ?$

A) $\sqrt{2}$ B) $2\sqrt{2}$ C) $3\sqrt{2}$ D) $4\sqrt{2}$ E) $5\sqrt{2}$

16. 

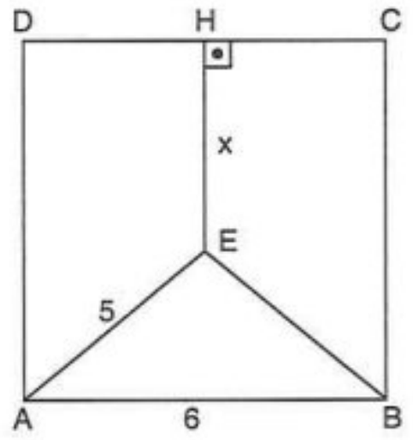
ABCD kare (*square*)

$|EC| = 3$ br

$|AE| = 21$ br

$\Rightarrow |EB| = x = ?$

A) 12 B) 15 C) 17 D) 21 E) 23

17. 

ABCD kare (*square*)

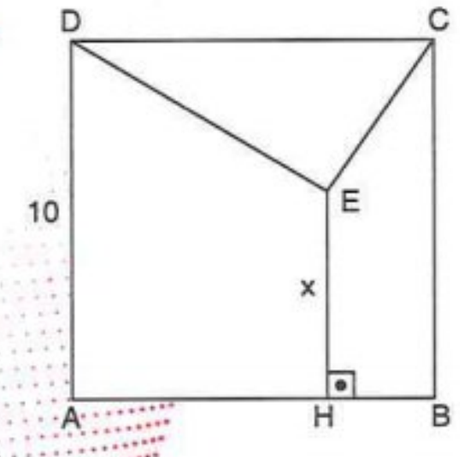
$[EH] \perp [DC]$

$|AE| = |EB| = 5$ br

$|AB| = 6$ br

$\Rightarrow |EH| = x = ?$

A) 2 B) $2\sqrt{2}$ C) 3 D) $3\sqrt{2}$ E) 4

18. 

ABCD kare (*square*)

$[EH] \perp [AB]$

$[ED] \perp [EC]$

$|HB| = 2$ br

$|AD| = 10$ br

$\Rightarrow |EH| = x = ?$

A) 6 B) 7 C) 8 D) 9 E) 10

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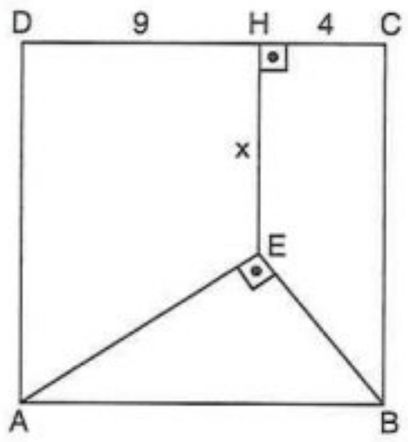
19.



ABCD kare (*square*)

$[AE] \perp [EB]$

$[EH] \perp [DC]$

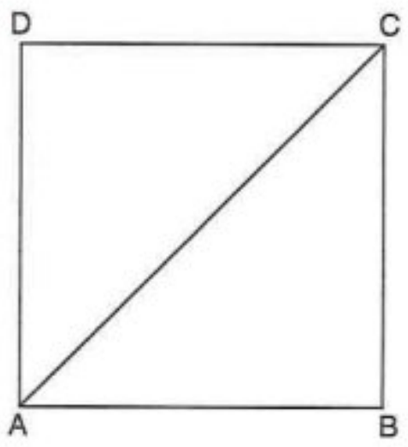
$|HC| = 4$ br

$|DH| = 9$ br

$\Rightarrow$ **$|EH| = x = ?$**

A) 5 B) 6 C) 7 D) 8 E) 9

20.



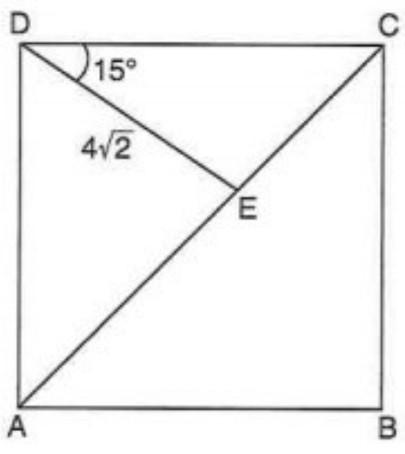
ABCD kare (*square*)

$|AC| = 8$ br

$\Rightarrow$ **A(ABCD) = ?**

A) 16 B) 24 C) 32 D) 48 E) 56

21.



ABCD kare (*square*)

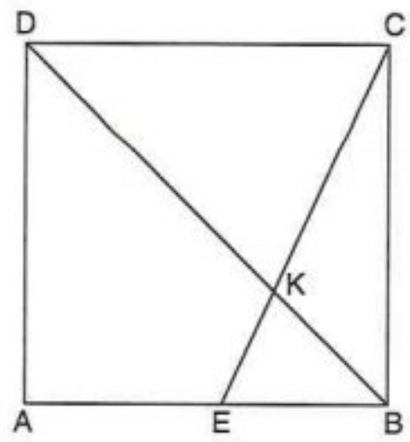
$m(\widehat{EDC}) = 15°$

$|DE| = 4\sqrt{2}$ br

$\Rightarrow$ **A(ABCD) = ?**

A) 52 B) 48 C) 44 D) 36 E) 32

22.



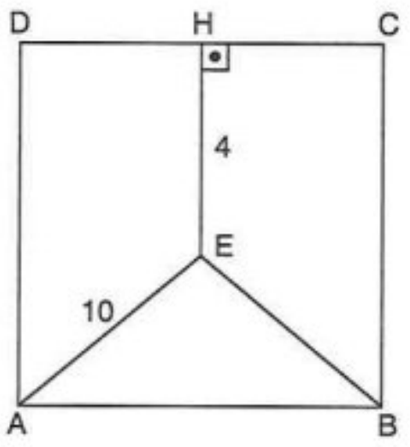
ABCD kare (*square*)

$|AE| = 3|EB|$

$\Rightarrow \dfrac{\mathbf{A(ADKE)}}{\mathbf{A(EKB)}} = ?$

A) 19 B) 18 C) 17 D) 16 E) 15

23.



ABCD kare (*square*)

$[EH] \perp [DC]$

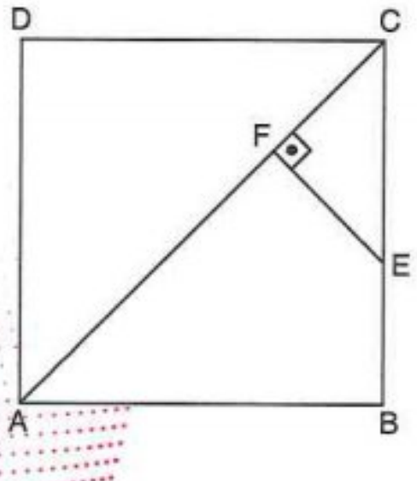
$|EH| = 4$ br

$|EA| = |EB| = 10$ br

$\Rightarrow$ **A(ABCD) = ?**

A) 64 B) 81 C) 121 D) 144 E) 256

24.



ABCD kare (*square*)

$[EF] \perp [AC]$

$3|EB| = 2|EC|$

$|EF| = 6$ br

$\Rightarrow$ **$|AF| = ?$**

A) 10 B) 11 C) 12 D) 13 E) 14

13. B	14. C	15. A	16. B	17. A	18. A
19. C	20. C	21. B	22. A	23. D	24. E

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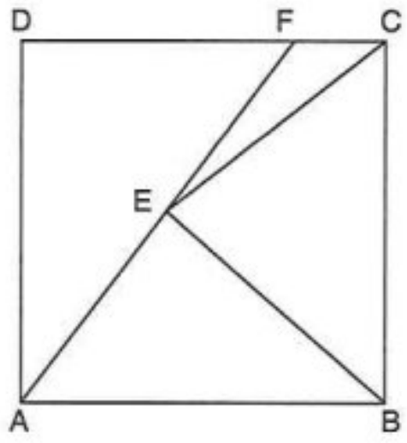
1.



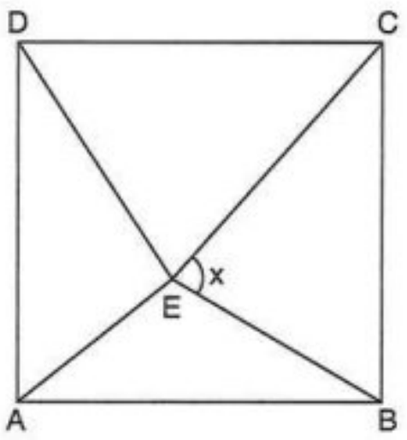
ABCD kare (*square*)

EBC eşkenar üçgen (*equilateral triangle*)

⇒ **m(A$\widehat{F}$C) = ?**

A) 100° B) 105° C) 110° D) 115° E) 120°

2.



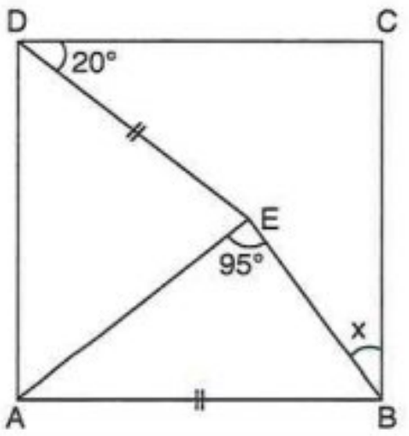
ABCD kare (*square*)

DEC eşkenar üçgen (*equilateral triangle*)

⇒ **m(C$\widehat{E}$B) = x = ?**

A) 30° B) 45° C) 60° D) 75° E) 90°

3.



ABCD kare (*square*)

|DE| = |AB|

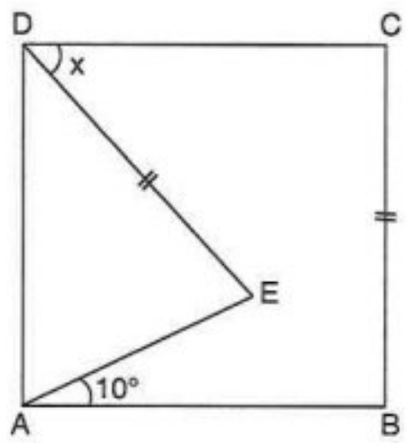
m(C$\widehat{D}$E) = 20°

m(A$\widehat{E}$B) = 95°

⇒ **m(E$\widehat{B}$C) = x = ?**

A) 40° B) 50° C) 56° D) 60° E) 65°

4.



ABCD kare (*square*)

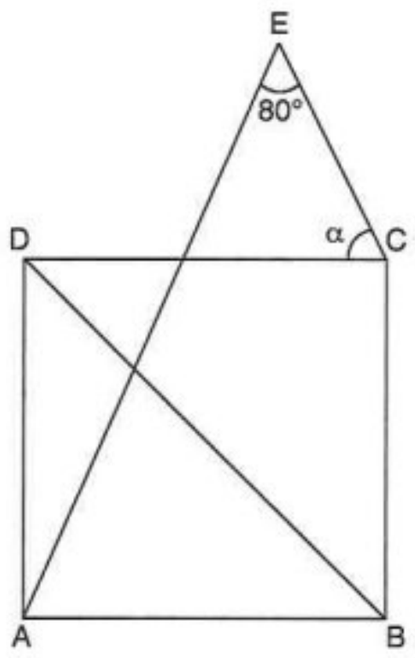
|ED| = |BC|

m(E$\widehat{A}$B) = 10°

⇒ **m(E$\widehat{D}$C) = x = ?**

A) 50° B) 60° C) 70° D) 80° E) 85°

5.



ABCD kare (*square*)

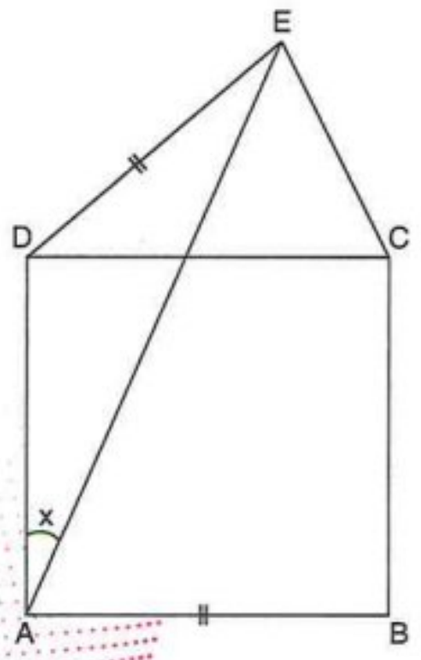
|BD| = |AE|

m(A$\widehat{E}$C) = 80°

⇒ **m(D$\widehat{C}$E) = α = ?**

A) 20° B) 25° C) 30° D) 35° E) 40°

6.



ABCD kare (*square*)

|ED| = |AB|

m(D$\widehat{C}$E) = 76°

⇒ **m(D$\widehat{A}$E) = x = ?**

A) 28° B) 29° C) 31° D) 32° E) 34°

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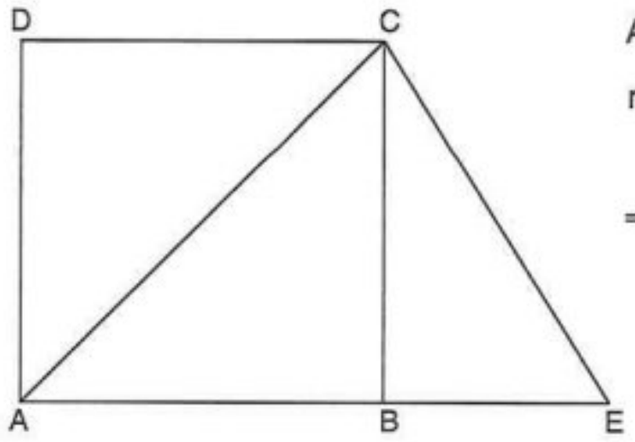
7.



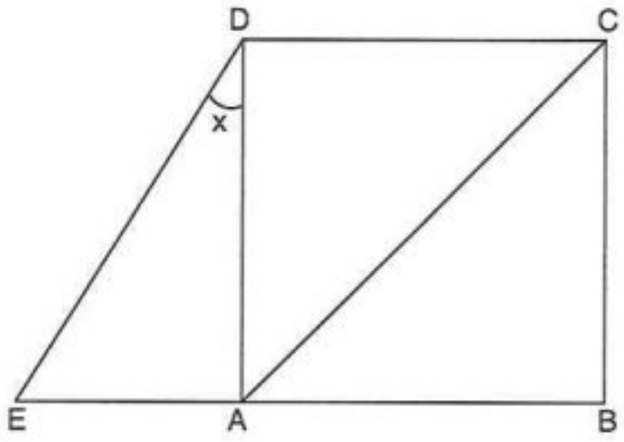
ABCD kare (*square*)

$m(A\widehat{E}C) = 4 \cdot m(B\widehat{C}E)$

⇒ $\mathbf{m(A\widehat{C}E) = ?}$

A) 63° B) 64° C) 65° D) 66° E) 67°

8.



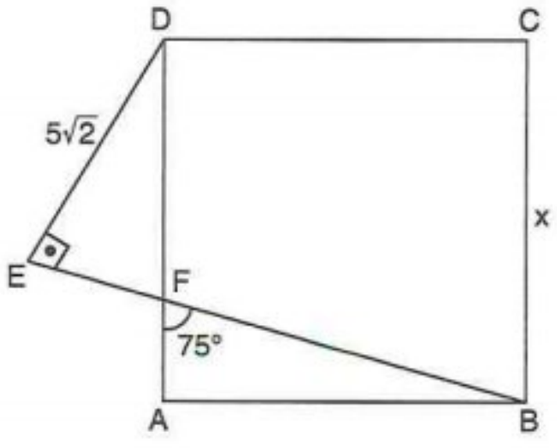
ABCD kare (*square*)

$|AC| = |EB|$

⇒ $\mathbf{m(E\widehat{D}A) = x = ?}$

A) 15° B) 22,5° C) 30° D) 45° E) 52,5°

9.



ABCD kare (*square*)

$[DE] \perp [EB]$

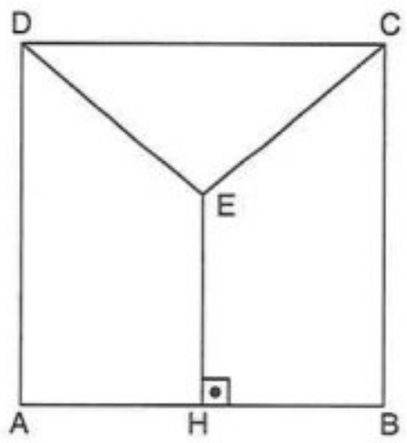
$m(A\widehat{F}B) = 75°$

$|ED| = 5\sqrt{2}$ br

⇒ $\mathbf{|BC| = x = ?}$

A) 5 B) $5\sqrt{2}$ C) $5\sqrt{3}$ D) 10 E) $10\sqrt{2}$

10.



ABCD kare (*square*)

$[EH] \perp [AB]$

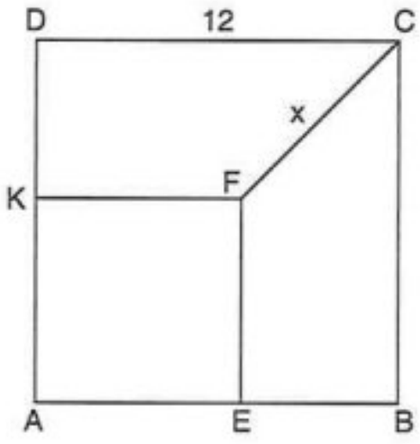
$|DE| = |EC| = 10$ br

$|EH| = 4$ br

⇒ $\mathbf{|BC| = ?}$

A) 8 B) 9 C) 10 D) 11 E) 12

11.



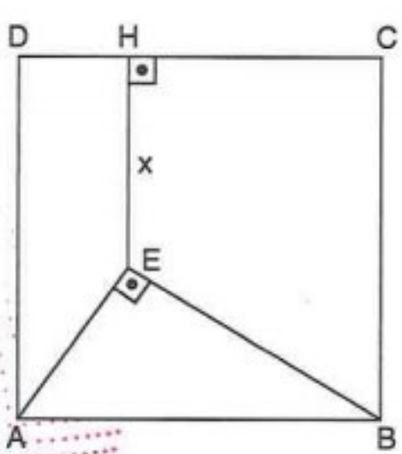
ABCD, AEFK kare (*square*)

$|DC| = 2|KF| = 12$ br

⇒ $\mathbf{|FC| = x = ?}$

A) 4 B) 6 C) $6\sqrt{2}$ D) $8\sqrt{2}$ E) 10

12.



ABCD kare (*square*)

$[EH] \perp [DC]$

$[AE] \perp [EB]$

$m(A\widehat{B}E) = 15°$

$|AB| = 12$ br

⇒ $\mathbf{|EH| = x = ?}$

A) 6 B) 7 C) 8 D) 9 E) 10

1. B	2. D	3. A	4. C	5. D	6. C
7. A	8. B	9. D	10. E	11. C	12. D

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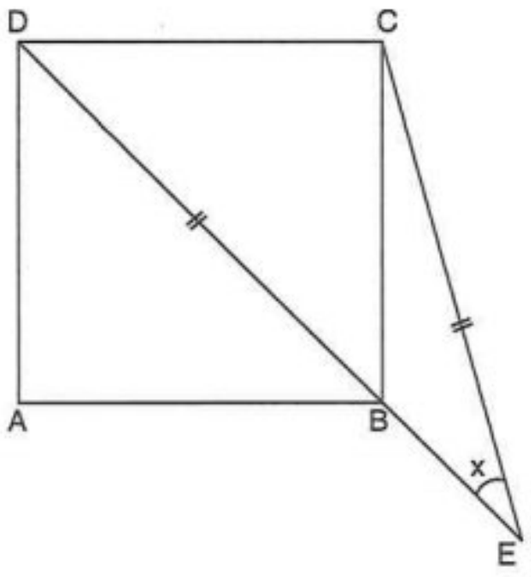
1.



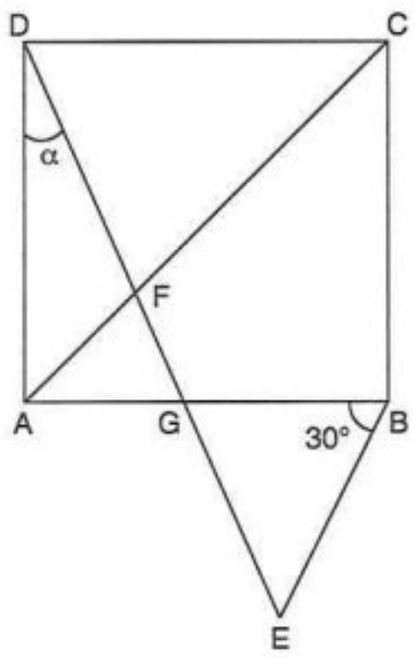
ABCD kare (*square*)

$|DB| = |CE|$

$\Rightarrow m(\widehat{DEC}) = x = ?$

A) 15° B) 30° C) 45° D) 60° E) 75°

2.



ABCD kare (*square*)

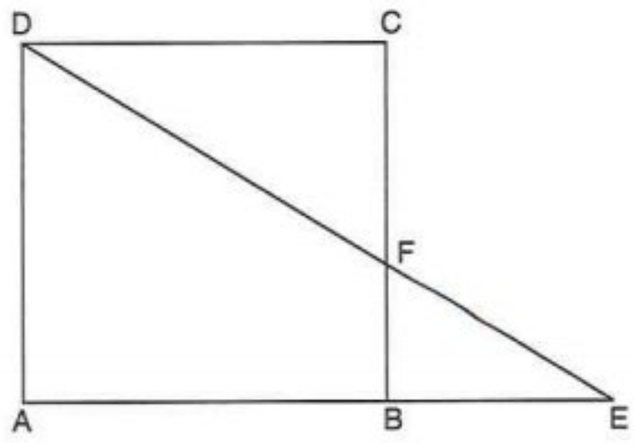
$|AC| = |DE|$

$m(\widehat{ABE}) = 30°$

$\Rightarrow m(\widehat{ADE}) = \alpha = ?$

A) 5° B) 10° C) 15° D) 20° E) 25°

3.



ABCD kare (*square*)

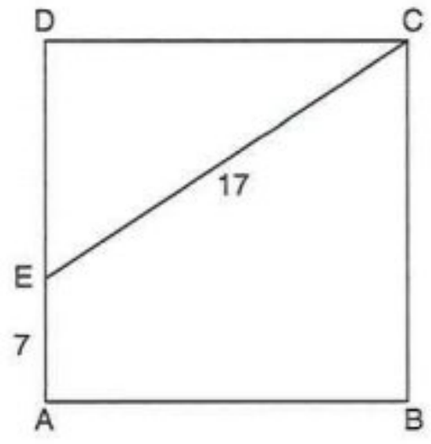
$2|BF| = |FC|$

$|DF| = 4\sqrt{13}$ br

$\Rightarrow$ **Ç(ABCD) = ?**

A) 30 B) 32 C) 36 D) 44 E) 48

4.



ABCD kare (*square*)

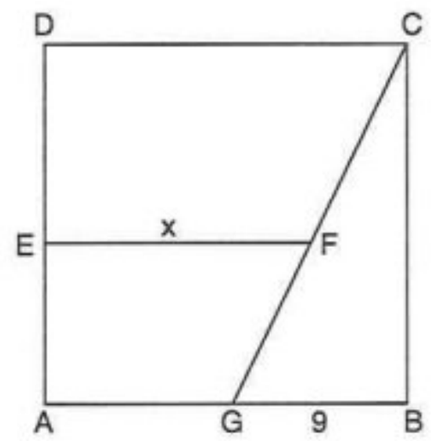
$|AE| = 7$ br

$|EC| = 17$ br

$\Rightarrow$ **Ç(ABCD) = ?**

A) 40 B) 50 C) 60 D) 80 E) 100

5.



ABCD kare (*square*)

$[EF] \perp [DA]$

$|CF| = |FG|$

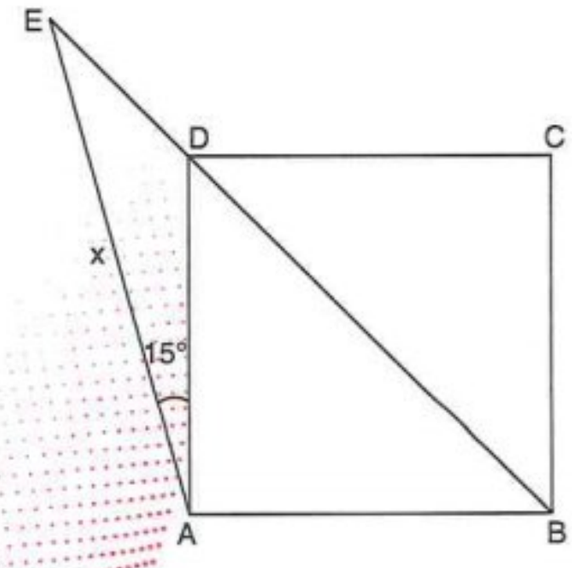
$8|GF| = 5|DC|$

$|GB| = 9$ br

$\Rightarrow$ **$|EF| = x = ?$**

A) 6 B) 6,5 C) 7 D) 7,5 E) 8

6.



ABCD kare (*square*)

$m(\widehat{EAD}) = 15°$

$|AB| = 6$ br

$\Rightarrow$ **$|AE| = x = ?$**

A) 4 B) $3\sqrt{2}$ C) $4\sqrt{2}$ D) 6 E) $6\sqrt{2}$

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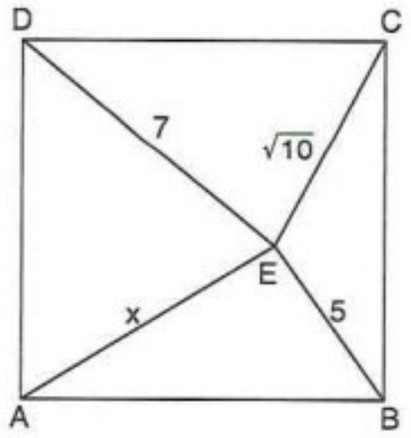
7.



ABCD kare (*square*)

$|BE| = 5$ br

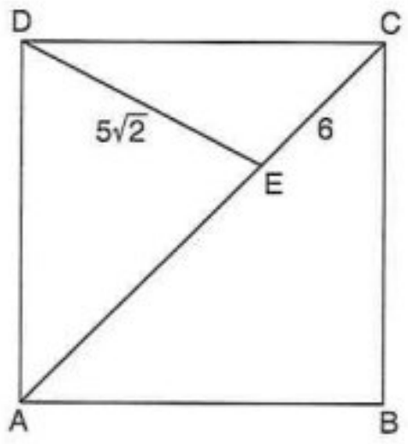
$|CE| = \sqrt{10}$ br

$|DE| = 7$ br

$\Rightarrow |AE| = x = ?$

A) 4 B) 6 C) 7 D) 8 E) 9

8.



ABCD kare (*square*)

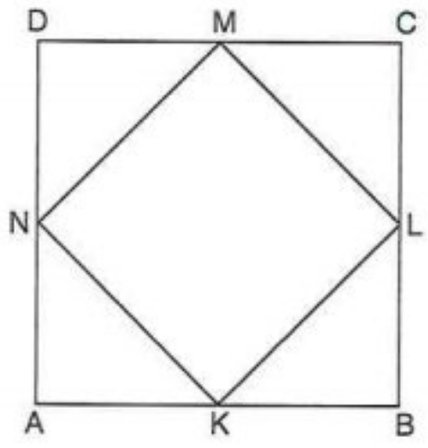
$|EC| = 6$ br

$|DE| = 5\sqrt{2}$ br

$\Rightarrow |AB| = ?$

A) $5\sqrt{2}$ B) $7\sqrt{2}$ C) 5 D) 7 E) 8

9.



ABCD, KLMN kare (*square*)

$|MC| > |DM|$

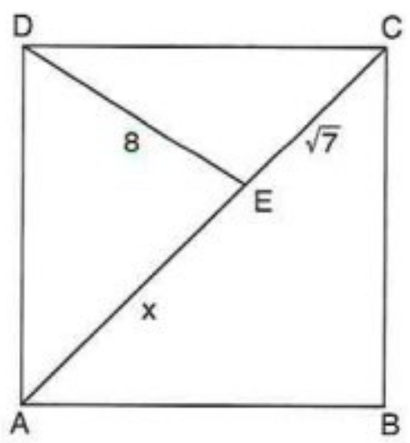
$|DC| = 14$ br

$|NK| = 10$ br

$\Rightarrow |MC| = ?$

A) 5 B) 6 C) 7 D) 8 E) 9

10.



ABCD kare (*square*)

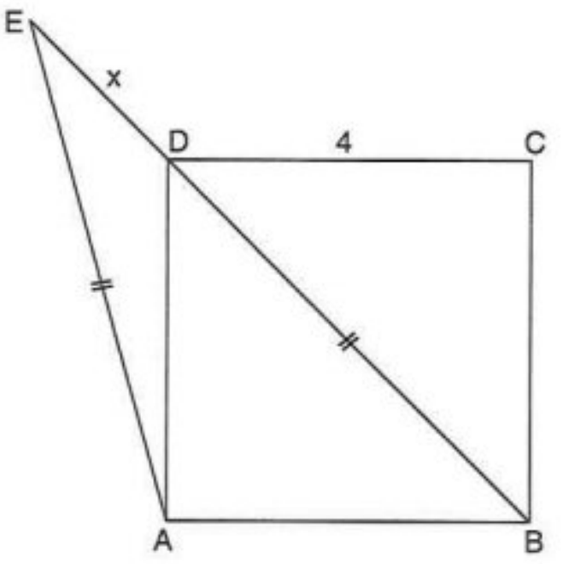
$|EC| = \sqrt{7}$ br

$|DE| = 8$ br

$\Rightarrow |AE| = x = ?$

A) 10 B) 11 C) 12 D) 13 E) 14

11.



ABCD kare (*square*)

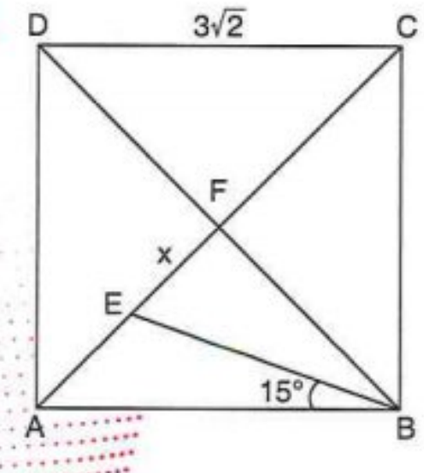
$|DC| = 4$ br

$|AE| = |BD|$

$\Rightarrow |DE| = x = ?$

A) $2\sqrt{6} - 2\sqrt{2}$ B) $4\sqrt{2} - \sqrt{6}$ C) 4
D) $\sqrt{6} - \sqrt{2}$ E) $\sqrt{2} - 1$

12.



ABCD kare (*square*)

$m(\widehat{ABE}) = 15°$

$|DC| = 3\sqrt{2}$ br

$\Rightarrow |EF| = x = ?$

A) $\sqrt{3}$ B) 3 C) $2\sqrt{3}$ D) 4 E) 5

1. B	2. C	3. E	4. C	5. D	6. E
7. D	8. B	9. D	10. B	11. A	12. A

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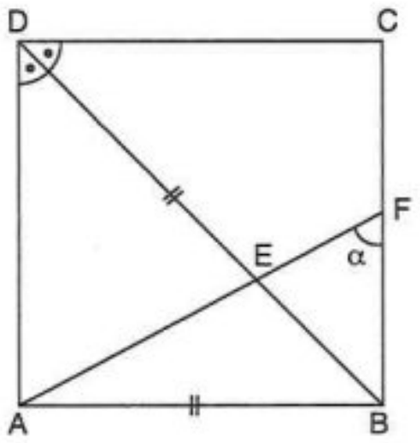
1.



ABCD kare (*square*)

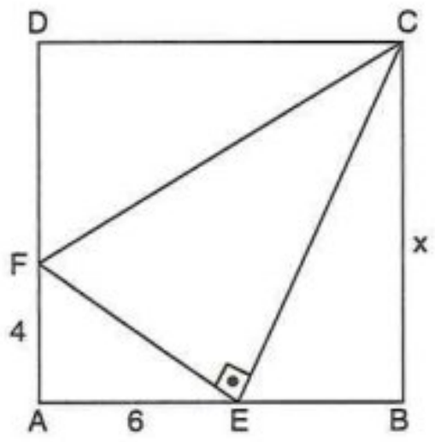
$m(A\widehat{D}B) = m(B\widehat{D}C)$

$|DE| = |AB|$

$\Rightarrow m(A\widehat{F}B) = \alpha = ?$

A) 22,5° B) 30° C) 45° D) 67,5° E) 75°

2.



ABCD kare (*square*)

$[EF] \perp [EC]$

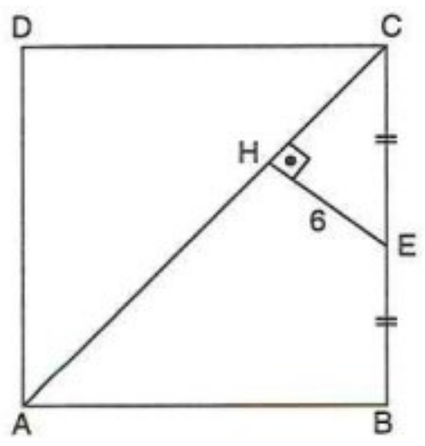
$|AF| = 4$ br

$|AE| = 6$ br

$\Rightarrow |BC| = x = ?$

A) 8 B) 9 C) 12 D) 18 E) 24

3.



ABCD kare (*square*)

$[EH] \perp [AC]$

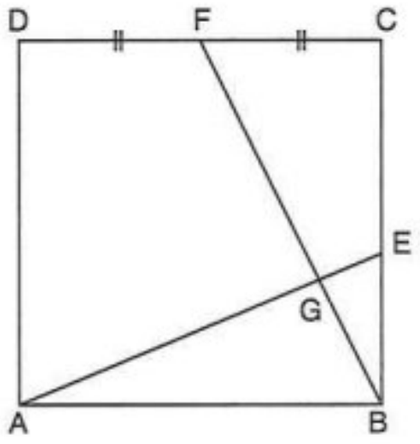
$|CE| = |EB|$

$|EH| = 6$ br

$\Rightarrow |AC| = x = ?$

A) $12\sqrt{2}$ B) 18 C) $18\sqrt{2}$ D) 24 E) $24\sqrt{2}$

4.



ABCD kare (*square*)

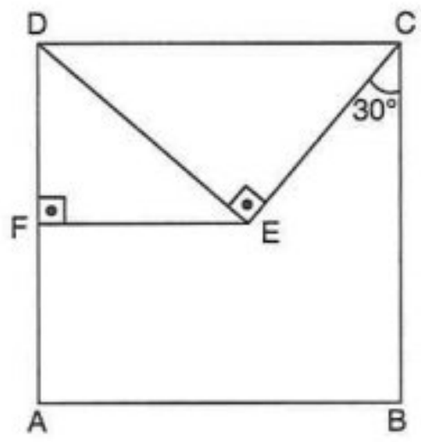
$|DF| = |FC|$

$2|CE| = 3|EB|$

$\Rightarrow \dfrac{|EG|}{|AG|} = ?$

A) $\frac{1}{5}$ B) $\frac{2}{5}$ C) $\frac{3}{5}$ D) $\frac{4}{5}$ E) $\frac{5}{6}$

5.



ABCD kare (*square*)

$[DE] \perp [EC]$

$[EF] \perp [AD]$

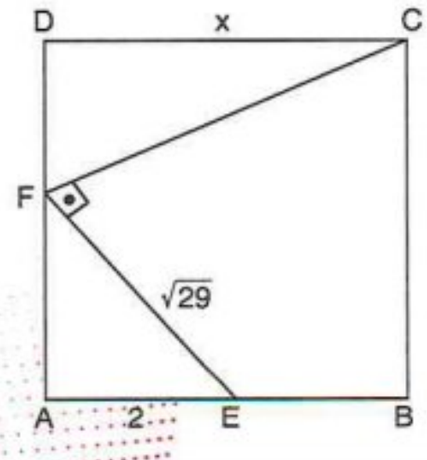
$m(E\widehat{C}B) = 30°$

$|AB| = 12$ br

$\Rightarrow |EF| = ?$

A) 6 B) 8 C) 9 D) $6\sqrt{3}$ E) $9\sqrt{3}$

6.



ABCD kare (*square*)

$[CF] \perp [FE]$

$|FE| = \sqrt{29}$ br

$|AE| = 2$ br

$\Rightarrow |DC| = x = ?$

A) $\frac{35}{3}$ B) 10 C) $\frac{28}{3}$ D) 9 E) $\frac{25}{3}$

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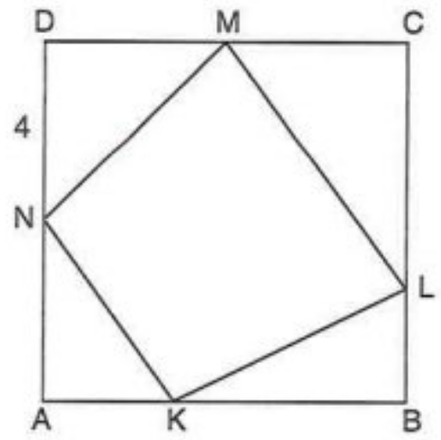
7.



ABCD kare (*square*)

$|AB| = 6$ br

$|DN| = 4$ br

$|AK| = 2$ br

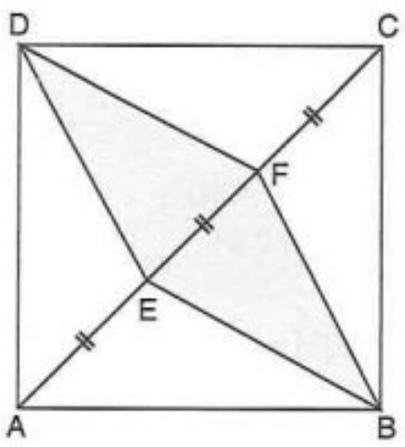
$|LB| = 3$ br

$|MC| = 2$ br

⇒ **A(KLMN) = ?**

A) 13 B) 17 C) 19 D) 21 E) 23

8.



ABCD kare (*square*)

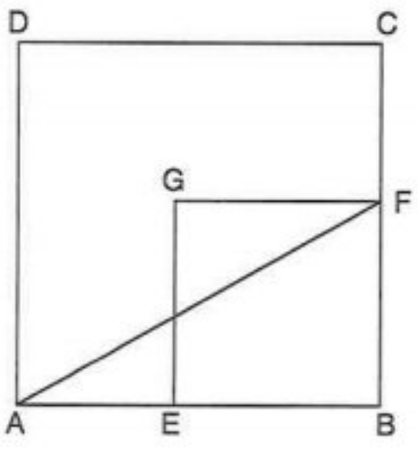
$|AE| = |EF| = |FC|$

$|AB| = 6$ br

⇒ **A(DEBF) = ?**

A) $\frac{14}{3}$ B) $\frac{16}{3}$ C) 10 D) 12 E) 14

9.



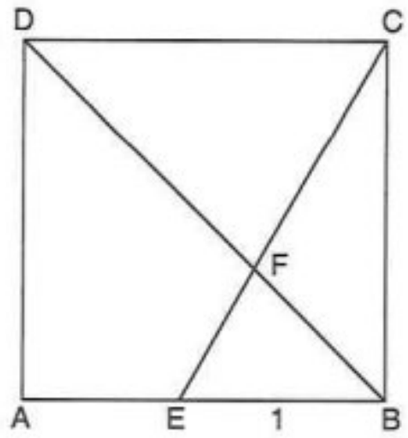
ABCD, EBFG kare (*square*)

$|AF| = 5$ br

⇒ **A(ABCD) + A(EBFG) = ?**

A) 16 B) 17 C) 18 D) 20 E) 25

10.



ABCD kare (*square*)

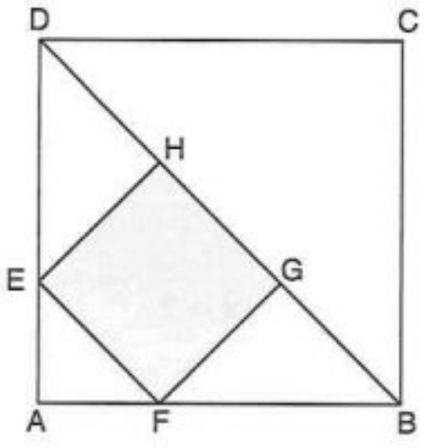
$|EB| = 1$ br

$A(ABCD) = 8 \cdot A(BFC)$

⇒ **A(ABCD) = ?**

A) 9 B) 10 C) 11 D) 12 E) 13

11.



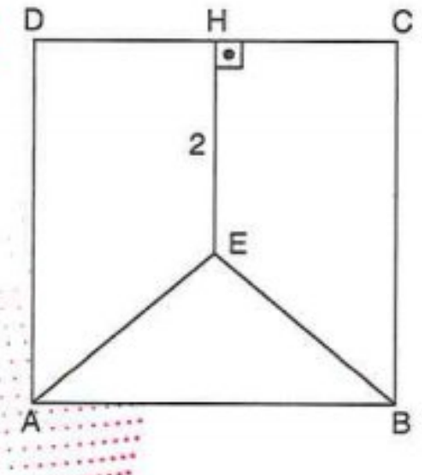
ABCD, EFGH kare (*square*)

$A(ABCD) = 81$ br^2

⇒ **A(EFGH) = ?**

A) 12 B) 16 C) 18 D) 24 E) 36

12.



ABCD kare (*square*)

$[EH] \perp [DC]$

$|EH| = 2$ br

$A(AEBCD) = 24$ br^2

⇒ **A(ABCD) = ?**

A) 72 B) 50 C) 64 D) 42 E) 36

1. D	2. D	3. D	4. A	5. C	6. E
7. B	8. D	9. E	10. A	11. C	12. E

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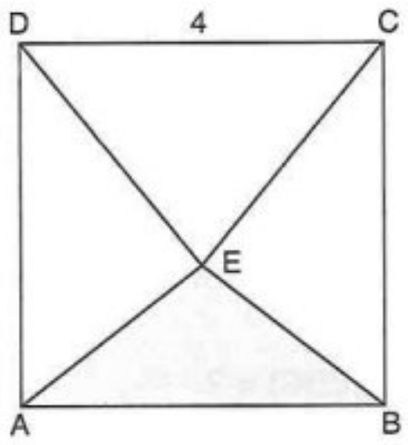
1.



ABCD kare (*square*)

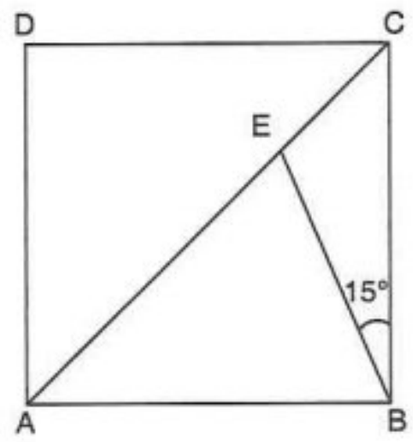
DEC eşkenar üçgen (*equilateral triangle*)

$|DC| = 4$ br

⇒ **A(AEB) = ?**

A) $8-4\sqrt{3}$ B) $6-2\sqrt{3}$ C) $4-4\sqrt{3}$ D) $4-\sqrt{3}$ E) $8-2\sqrt{3}$

2.



ABCD kare (*square*)

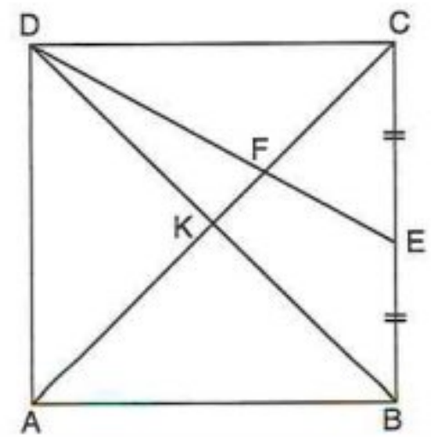
$m(E\widehat{B}C) = 15°$

$|EB| = 6\sqrt{3}$ br

⇒ **A(ABCD) = ?**

A) 72 B) 96 C) 108 D) 144 E) 162

3.



ABCD kare (*square*)

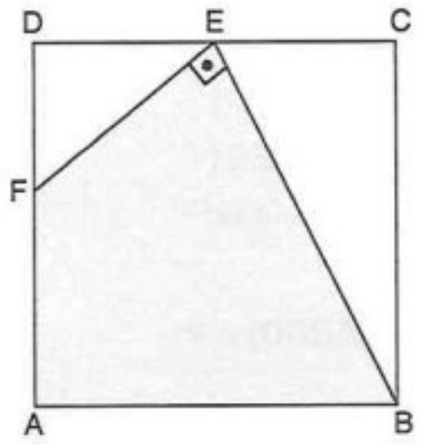
$|BE| = |EC|$

$A(ABCD) = 162$ br^2

⇒ **$|KF| = ?$**

A) 2 B) 3 C) 4 D) 6 E) 9

4.



ABCD kare (*square*)

$[FE] \perp [EB]$

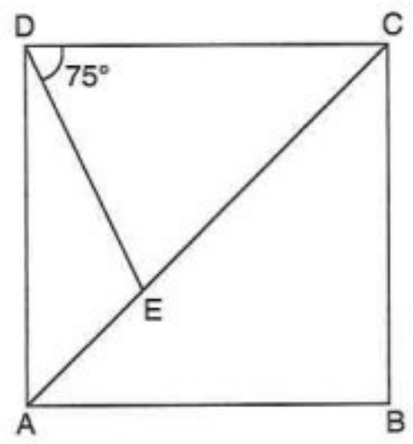
$|DE| = |EC|$

$|BC| = 12$ br

⇒ **A(AFEB) = ?**

A) 97 B) 98 C) 99 D) 100 E) 101

5.



ABCD kare (*square*)

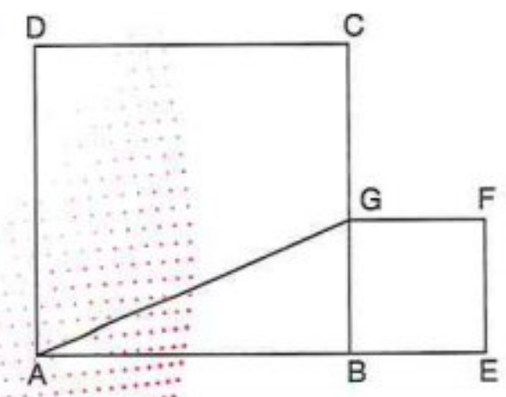
$m(E\widehat{D}C) = 75°$

$|DE| = 8$ br

⇒ **A(ABCD) = ?**

A) 48 B) 54 C) 64 D) 72 E) 96

6.



ABCD, BEFG kare (*square*)

$|AG| = 2\sqrt{6}$ br

⇒ **A(ABCD) + A(BEFG) = ?**

A) 36 B) 32 C) 28 D) 24 E) 18

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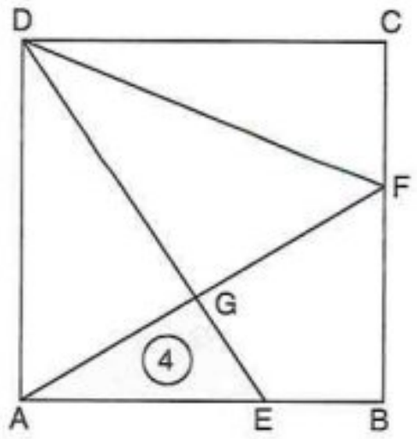
7.



ABCD kare (*square*)

$|BF| = 2|FC|$

$|AB| = 4|EB|$

$A(AGE) = 4\ br^2$

⇒ **A(ABCD) = ?**

A) 16 B) 24 C) 32 D) 36 E) 48

8.

ABCD kare (*square*)

$|EC| = 2|ED|$

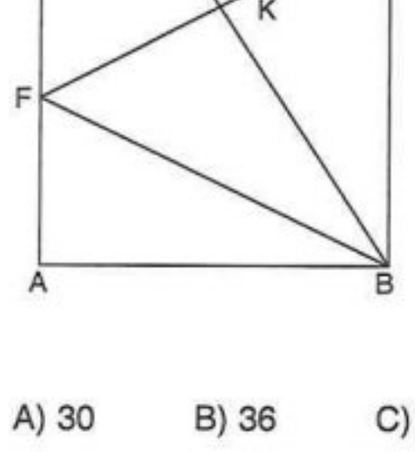
$A(EKC) = 3\ br^2$

$A(FKB) = 10\ br^2$

⇒ **A(ABCD) = ?**

A) 30 B) 36 C) 38 D) 42 E) 45

9.



ABCD kare (*square*)

$[DF] \perp [FC]$

$|DF| = |FC|$

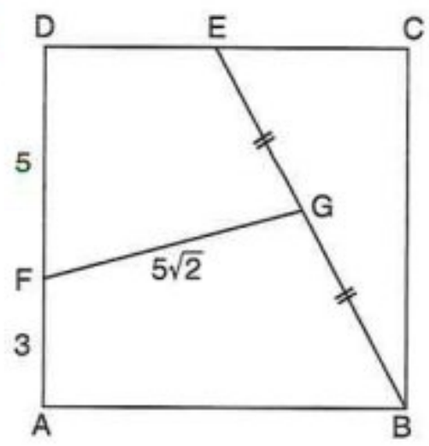
$|AE| = |EB|$

Taralı Alan = $24\ br^2$
(Shade Area)

⇒ **A(ABCD) = ?**

A) 48 B) 72 C) 96 D) 120 E) 144

10.



ABCD kare (*square*)

$|EG| = |GB|$

$|AF| = 3$ br

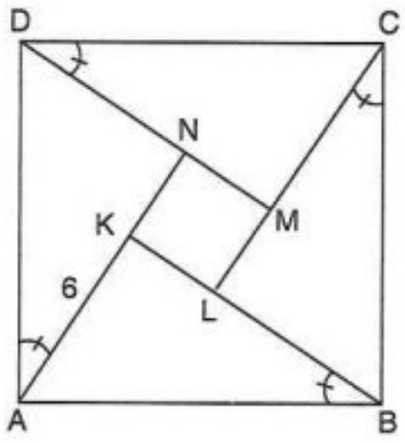
$|DF| = 5$ br

$|FG| = 5\sqrt{2}$ br

⇒ **A(EBC) = ?**

A) 8 B) 9 C) 10 D) 12 E) 14

11.



ABCD kare (*square*)

$m(\widehat{DAN}) = m(\widehat{ABK}) = m(\widehat{LBA})$

$m(\widehat{LBA}) = m(\widehat{LCB})$

$m(\widehat{LEB}) = m(\widehat{MDC})$

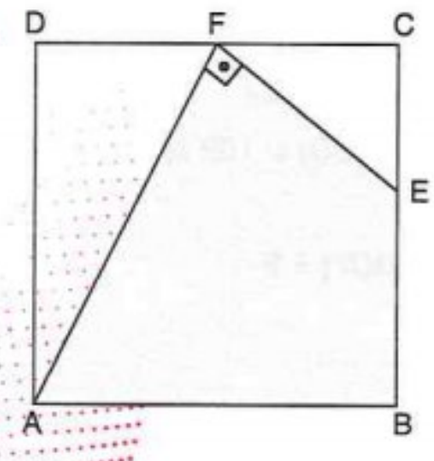
$|AK| = 6$ br

$|BC| = 10$ br

⇒ **A(KLMN) = ?**

A) 2 B) 4 C) 6 D) 9 E) 16

12.



ABCD kare (*square*)

$[AF] \perp [FE]$

$|AF| = 4|FE| = 20$ br

⇒ **A(AFEB) = ?**

A) 148 B) 150 C) 152 D) 154 E) 156

1. A	2. E	3. B	4. C	5. E	6. D
7. C	8. D	9. C	10. A	11. B	12. D

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YAMUK - DELTOİT
TRAPEZOID - DELTOID

KONU KAVRAMA TESTİ
Thread Grip Test

ZİHİN HARİTASI
Mind Map

11
TEST
Tests

192
SORU
Questions

ANER YÖS CANER YÖS CANER YÖS CANER YÖS CANER YÖS CANER YÖS CANER YÖS
tim kurumları eğitim kurumları eğitim kurumları eğitim kurumları eğitim kurumları eğitim kurumları eğitim kurumları

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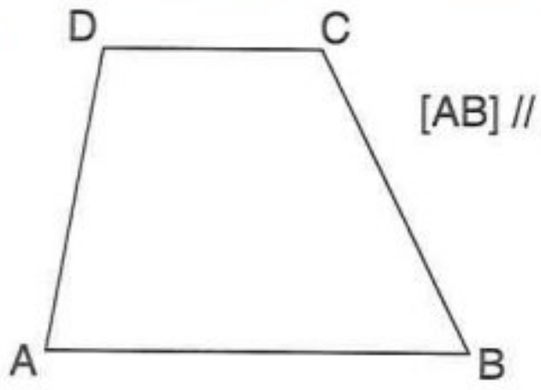
الممسوحة ضوئيا بـ CamScanner

YAMUK – DELTOİT
TRAPEZOID – DELTOID

CANER eğitim kurumları

YAMUK

1.

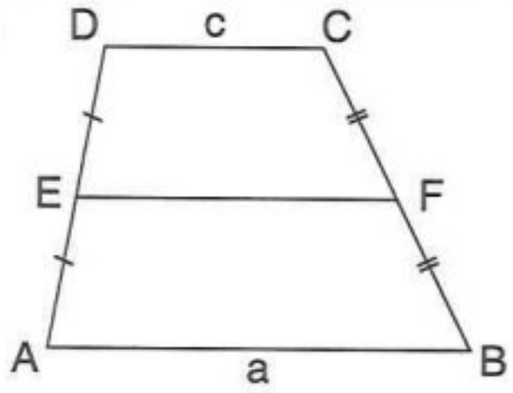


[AB] // [DC]

$m(\widehat{A}) + m(\widehat{D}) = 180°$

$m(\widehat{B}) + m(\widehat{C}) = 180°$

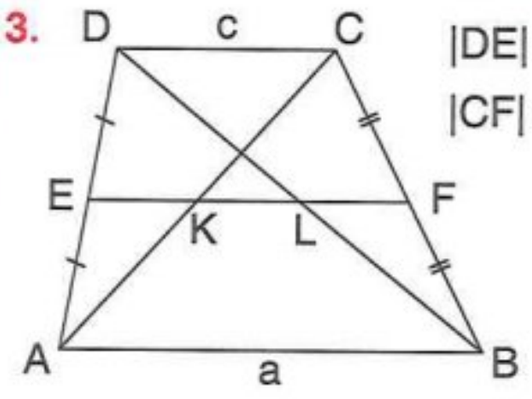
2.



[DC] // [EF] // [AB] $|DE| = |AE|$

$|EF| = \frac{a+c}{2}$ $|CF| = |BF|$

3.

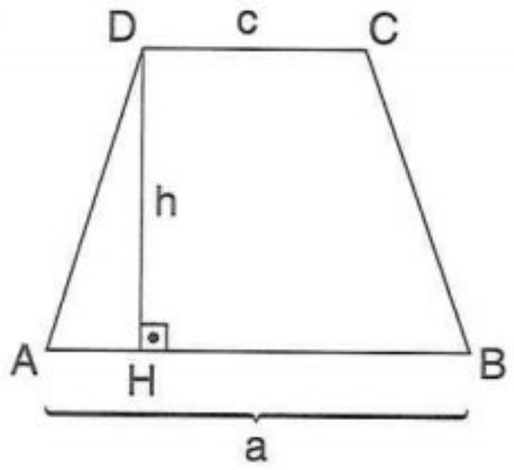


$|DE| = |AE|$

$|CF| = |BF|$

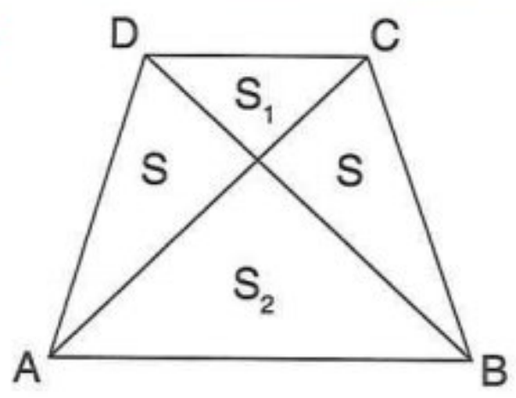
[DC] // [EF] // [AB] $|KL| = \frac{a-c}{2}$

4.



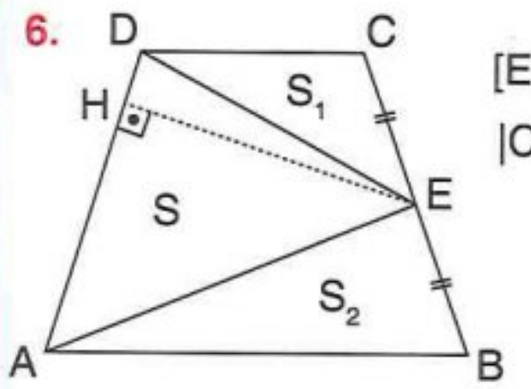
$A(ABCD) = \frac{a+c}{2} \cdot h$

5.



$S^2 = S_1 \cdot S_2$

6.



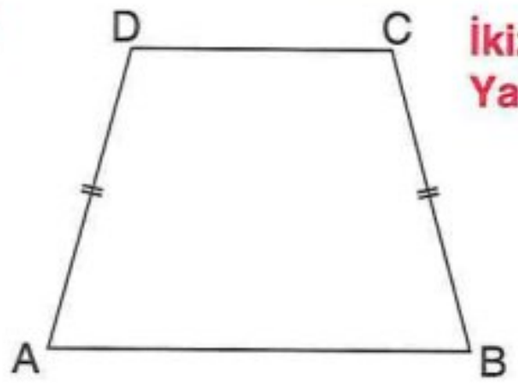
[EH] ⊥ [AD]

|CE| = |EB|

$S = S_1 + S_2 = \frac{A(ABCD)}{2}$

$A(ABCD) = |AD| \cdot |EH|$

7.

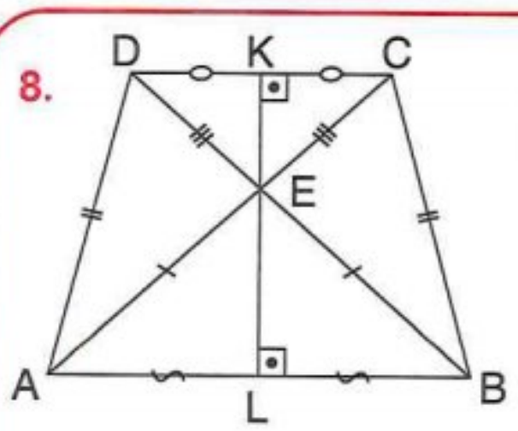


İkizkenar Yamuk

$|AD| = |BC| \Rightarrow m(\widehat{A}) = m(\widehat{B})$

$m(\widehat{C}) = m(\widehat{D})$

8.



ABCD ikizkenar yamuk

$|AD| = |BC|$ $|AE| = |EB|$

$|AL| = |LB|$ $|DE| = |EC|$

$|DK| = |KC|$ $|AC| = |BD|$

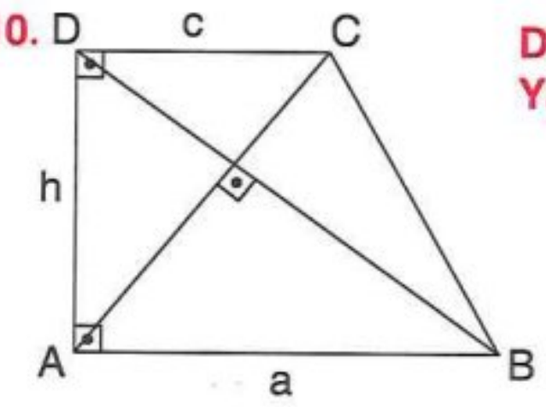
9.

ABCD ikizkenar yamuk

[AC] ⊥ [BD] $|KL| = h = \frac{a+c}{2}$

$A(ABCD) = \underbrace{\frac{a+c}{2}}_{h} \cdot h = h^2$

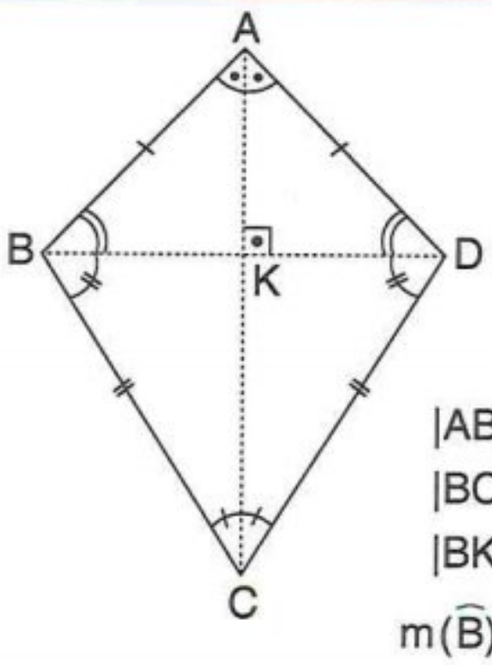
10.



Dik Yamuk

[AC] ⊥ [BD] ⇒ $h^2 = a \cdot c$

DELTOİT



|AB| = |AD|

|BC| = |CD|

|BK| = |KD|

$m(\widehat{B}) = m(\widehat{D})$

[AC] açıortay

$A(ABCD) = \frac{1}{2}|AC| \cdot |BD|$

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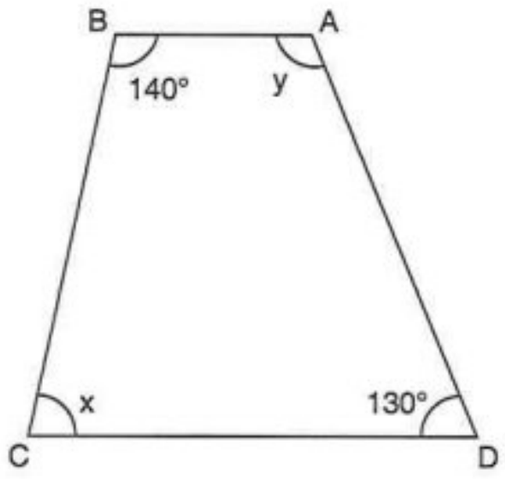
1.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

$m(\widehat{ABC}) = 140°$

$m(\widehat{BAD}) = y°$

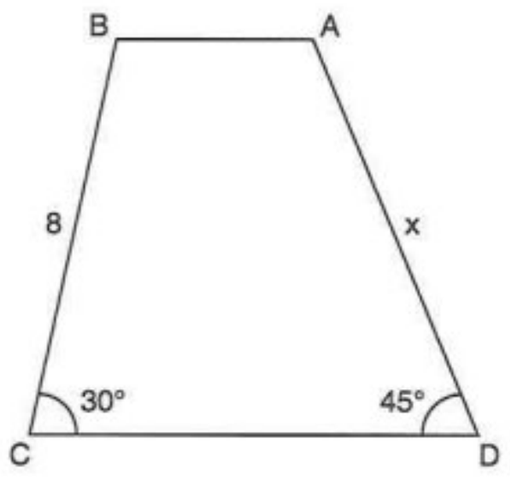
$m(\widehat{BCD}) = x°$

$m(\widehat{ADC}) = 130°$

⇒ **x + y = ?**

A) 90° B) 60° C) 50° D) 45° E) 40°

2.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

$m(\widehat{BCD}) = 30°$

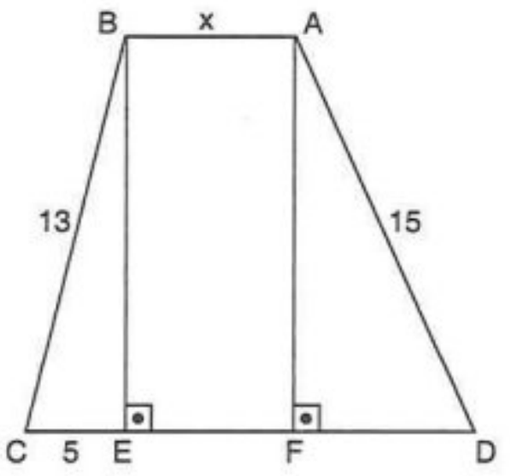
$m(\widehat{ADC}) = 45°$

|BC| = 8 br

⇒ **|AD| = x = ?**

A) 3 B) $4\sqrt{2}$ C) 6 D) $8\sqrt{3}$ E) 12

3.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

|CD| = 20 br

|BC| = 13 br

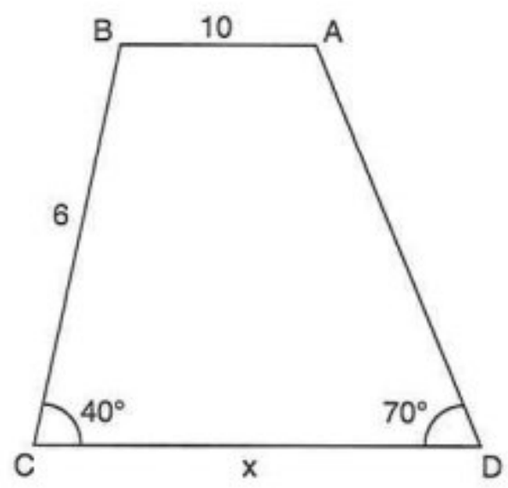
|AD| = 15 br

|CE| = 5 br

⇒ **|AD| = x = ?**

A) 10 B) 8 C) 6 D) 5 E) 4

4.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

|BA| = 10 br

|BC| = 6 br

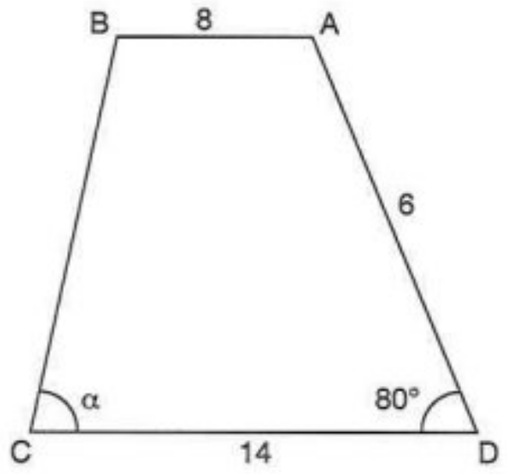
$m(\widehat{BCD}) = 40°$

$m(\widehat{ADC}) = 70°$

⇒ **|CD| = x = ?**

A) 12 B) 13 C) 14 D) 16 E) 18

5.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

|BA| = 8 br

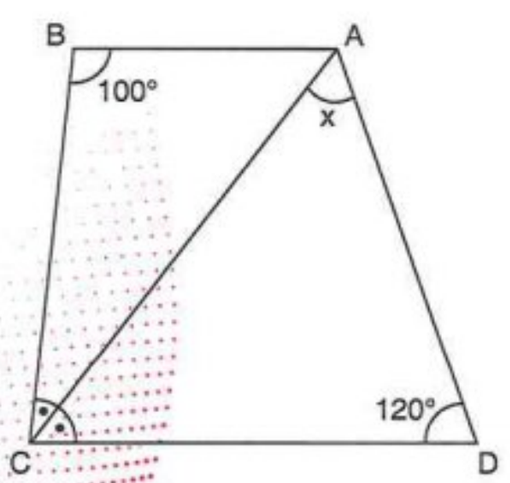
|AD| = 6 br

$m(\widehat{ADC}) = 80°$

⇒ **$m(\widehat{BCD}) = \alpha = ?$**

A) 80 B) 75 C) 60 D) 55 E) 50

6.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

$m(\widehat{ABC}) = 100°$

$m(\widehat{ADC}) = 120°$

[CA] açıortay *(bisector)*

⇒ **$m(\widehat{CAD}) = x = ?$**

A) 20 B) 30 C) 40 D) 50 E) 60

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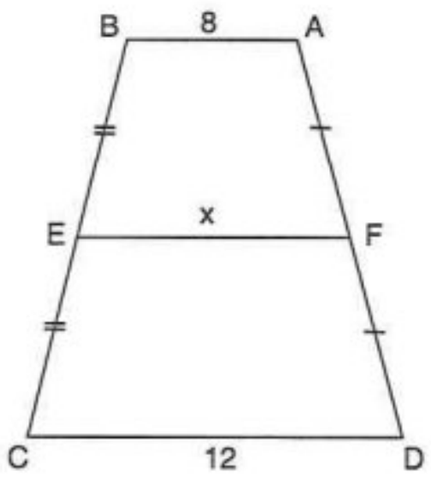
7.



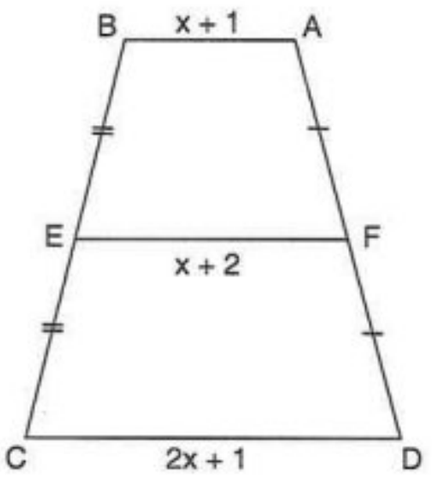
ABCD yamuk *(trapezoid)*

$|AB| \,//\, |CD| \,//\, |EF|$
$|BE| = |EC|$
$|AF| = |FD|$
$|BA| = 10\,br$
$|CD| = 12\,br$

$\Rightarrow |EF| = x = ?$

A) 11,5 B) 11 C) 10 D) 9,5 E) 9

8.



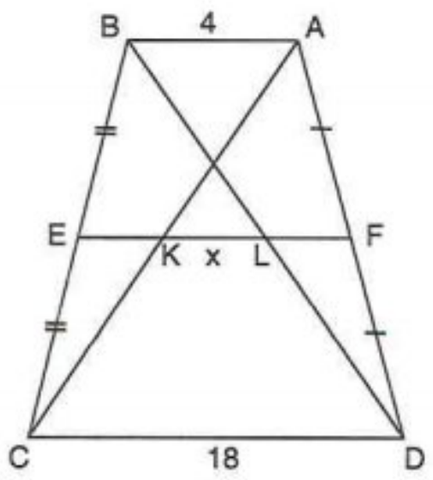
ABCD yamuk *(trapezoid)*

$|AB| \,//\, |CD| \,//\, |EF|$
$|BA| = x + 1$
$|EF| = x + 2$
$|CD| = 2x + 1$

$\Rightarrow x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

9.



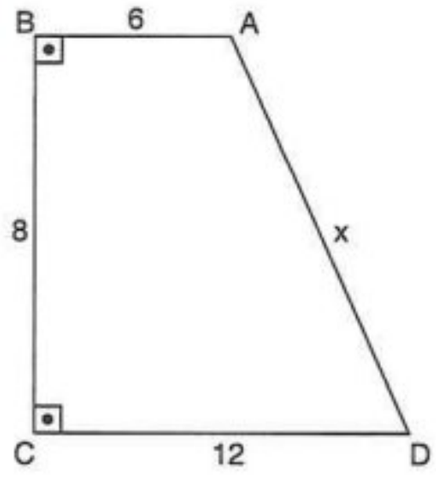
ABCD yamuk *(trapezoid)*

$|AB| \,//\, |CD| \,//\, |EF|$
$|BA| = 4\,br$
$|CD| = 18\,br$
$|BE| = |EC|$
$|AF| = |FD|$

$\Rightarrow |KL| = x = ?$

A) 5 B) 6 C) 7 D) 8 E) 9

10.



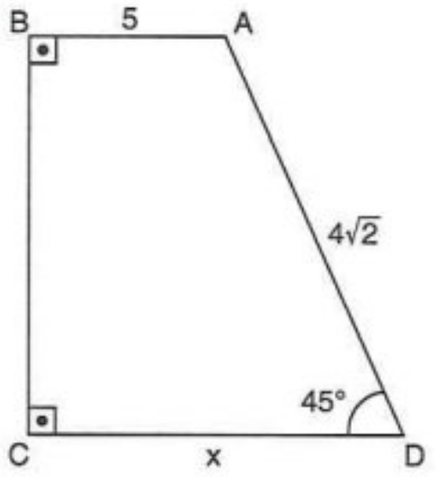
ABCD dik yamuk *(right trapezoid)*

$|BA| = 6\,br$
$|BC| = 8\,br$
$|CD| = 12\,br$

$\Rightarrow |AD| = x = ?$

A) 15 B) 14 C) 13 D) 11 E) 10

11.



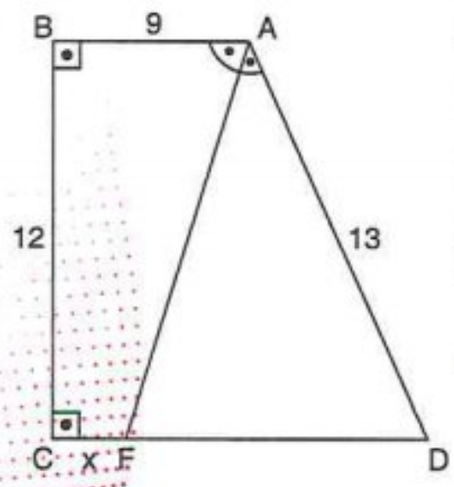
ABCD dik yamuk *(right trapezoid)*

$|BA| = 5\,br$
$|AD| = 4\sqrt{2}\,br$
$m(A\widehat{D}C) = 45°$

$\Rightarrow |CD| = x = ?$

A) 9 B) 10 C) 11 D) 12 E) 16

12.



ABCD dik yamuk *(right trapezoid)*

$|BA| = 5\,br$
$|BC| = 12\,br$
$|AD| = 13\,br$
[AF] açıortay *(bisector)*

$\Rightarrow |CF| = x = ?$

A) 1 B) 1,5 C) 2 D) 4 E) 5

1. A	2. B	3. C	4. D	5. E	6. A
7. C	8. B	9. C	10. E	11. A	12. A

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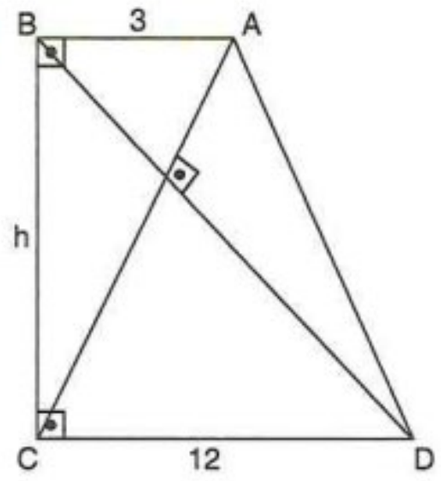
13.



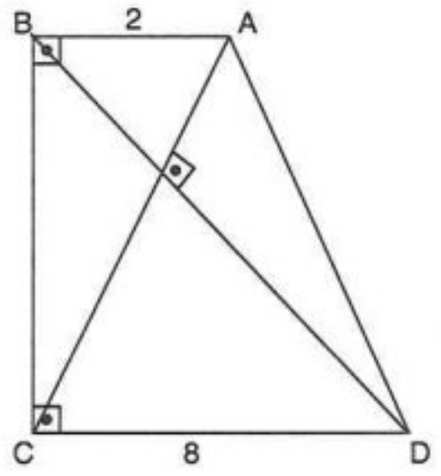
ABCD dik yamuk *(right trapezoid)*

$[AC] \perp [BD]$
$|BA| = 3br$
$|CD| = 12br$

$\Rightarrow |BC| = h = ?$

A) 10 B) 8 C) 7 D) 6 E) 5

14.



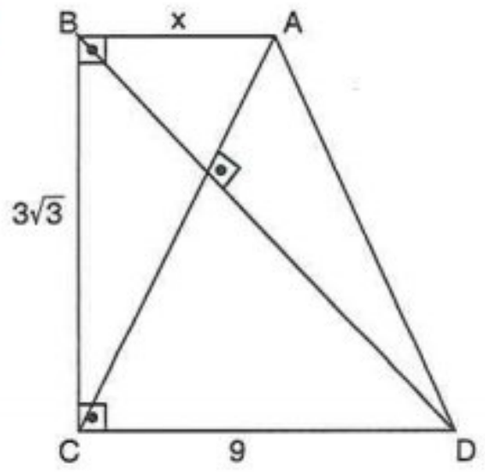
ABCD dik yamuk *(right trapezoid)*

$[AC] \perp [BD]$
$[BA] = 2br$
$[CD] = 8br$

$\Rightarrow A(ABCD) = ?$

A) 20 B) 25 C) 30 D) 40 E) 50

15.



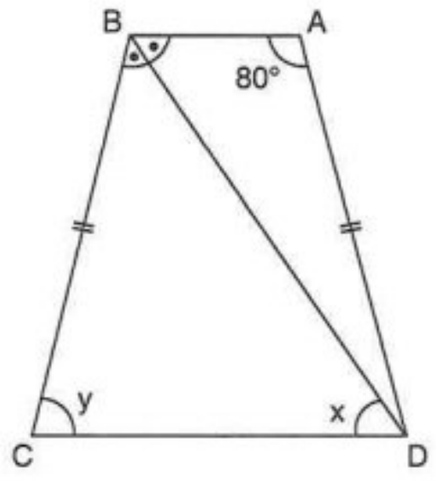
ABCD dik yamuk *(right trapezoid)*

$[AC] \perp [BD]$
$[BC] = 3\sqrt{3}\,br$
$[CD] = 9br$

$\Rightarrow |AB| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

16.



ABCD ikizkenar yamuk *(isosceles trapezoid)*

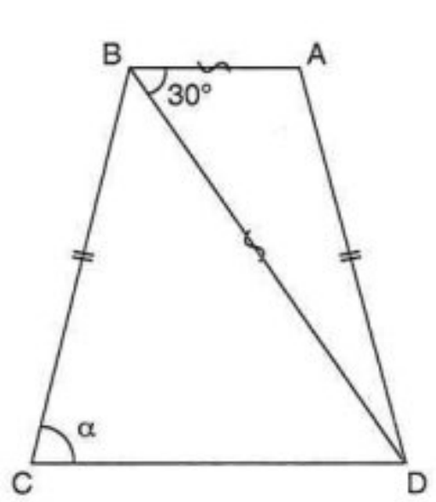
$[BD]$ açıortay *(bisector)*

$[AB] \mathbin{/\!/} [CD]$
$|BC| = |AD|$
$m(\widehat{BAD}) = 80°$
$m(\widehat{BCD}) = y°$
$m(\widehat{BDC}) = x°$

$\Rightarrow x + y = ?$

A) 90 B) 100 C) 120 D) 140 E) 150

17.



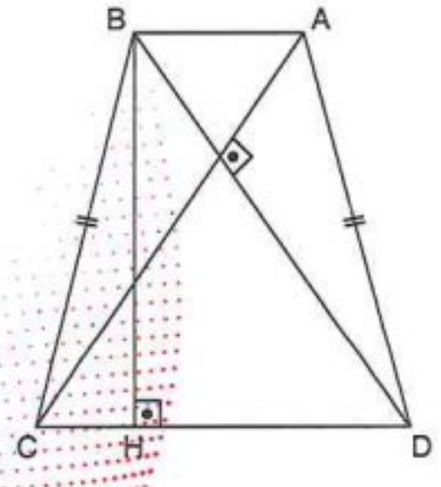
ABCD ikizkenar yamuk *(isosceles trapezoid)*

$[AB] \mathbin{/\!/} [CD]$
$m(\widehat{ABD}) = 30°$
$|BA| = |BD|$
$|BC| = |AD|$

$\Rightarrow m(\widehat{BCD}) = \alpha = ?$

A) 36 B) 72 C) 80 D) 90 E) 105

18.



ABCD ikizkenar yamuk *(isosceles trapezoid)*

$[AB] \mathbin{/\!/} [CD]$
$[BH] \perp [CD]$
$[AC] \perp [BD]$
$|AB| = 3br$
$|CD| = 13br$

$\Rightarrow |BH| = ?$

A) 4 B) 5 C) 6 D) 7 E) 8

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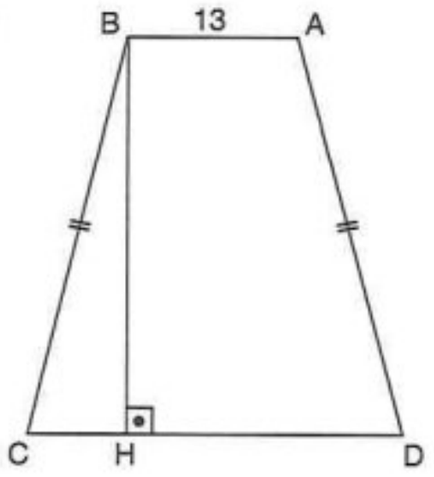
19.

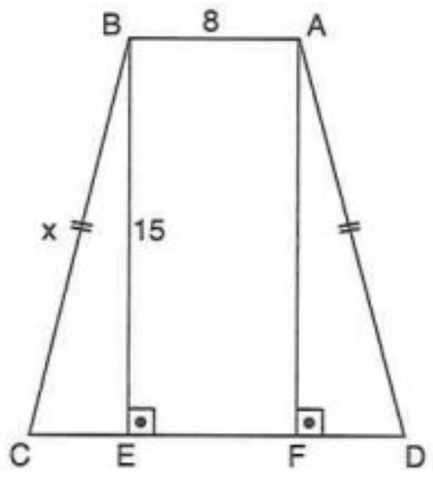


ABCD ikizkenar yamuk
(isosceles trapezoid)
[AB] // [CD]
[BH] ⊥ [CD]
|CD| = 21 br
|AB| = 13 br
|BC| = |AD|

⇒ **|CH| = ?**

A) 5 B) 4 C) 3 D) 2 E) 1

20.

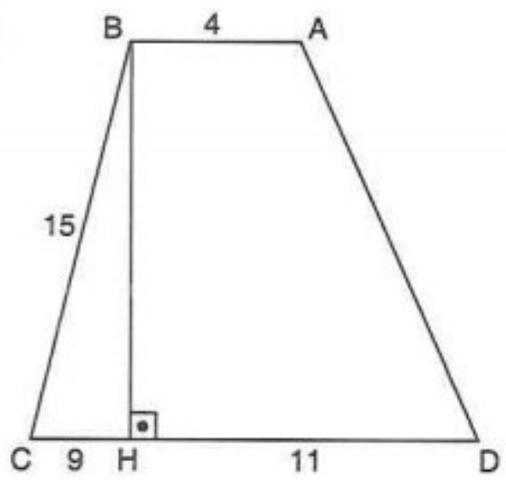


ABCD ikizkenar yamuk
(isosceles trapezoid)
[AB] // [CD]
|CD| = 24 br
|AB| = 8 br
|AF| = |BE| = 15 br

⇒ **|BC| = |AD| = x = ?**

A) 16 B) $15\sqrt{2}$ C) 17 D) 18 E) 20

21.

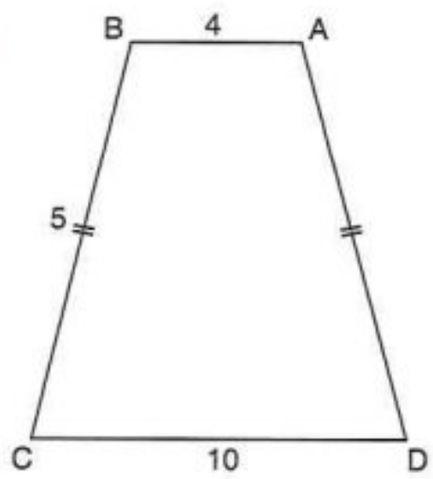


ABHD dik yamuk
(right trapezoid)
[BH] ⊥ [CD]
|AB| = 4 br
|BC| = 15 br
|CH| = 9 br
|HD| = 11 br

⇒ **A(ABCD) = ?**

A) 100 B) 120 C) 144 D) 150 E) 160

22.

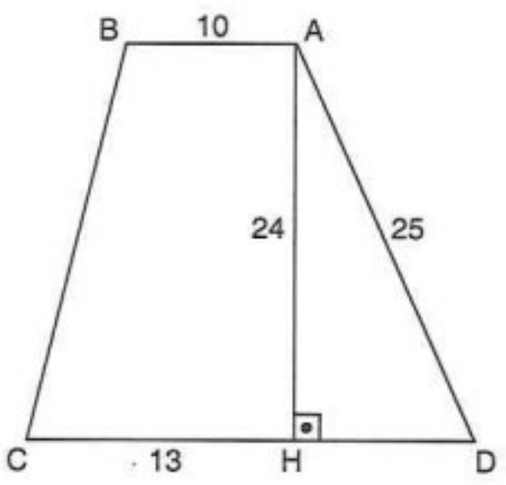


ABCD ikizkenar yamuk
(isosceles trapezoid)
[AB] // [CD]
|AB| = 4 br
|BC| = |AD| = 5 br
|CD| = 10 br

⇒ **A(ABCD) = ?**

A) 20 B) 28 C) 32 D) 36 E) 48

23.

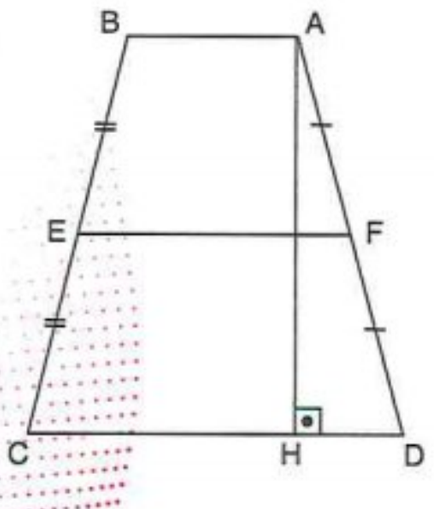


ABCD yamuk *(trapezoid)*
[AB] // [CD]
[AH] ⊥ [CD]
|AB| = 10 br
|CH| = 13 br
|AH| = 24 br
|AD| = 25 br

⇒ **A(ABCD) = ?**

A) 140 B) 200 C) 260 D) 300 E) 360

24.



ABCD yamuk *(trapezoid)*
[AB] // [EF] // [CD]
[AH] ⊥ [CD]
|BE| = |EC|
|AF| = |FD|
|EF| = 8 br
|AH| = 4 br

⇒ **A(ABCD) = ?**

A) 32 B) 48 C) 50 D) 60 E) 64

13. D	14. A	15. C	16. D	17. E	18. E
19. B	20. C	21. C	22. B	23. E	24. A

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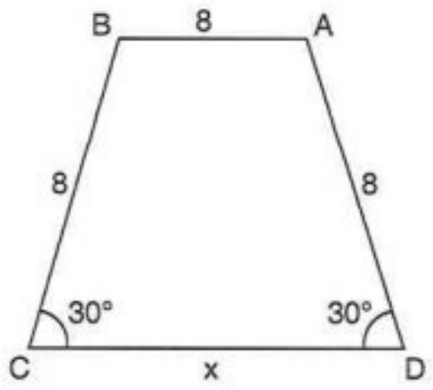
43.



ABCD yamuk *(trapezoid)*

$[AB] \parallel [CD]$

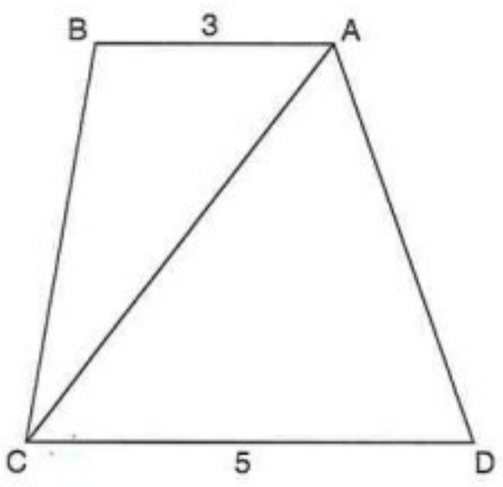
$|AB| = |BC| = |AD| = 8$ br

$m(\widehat{BCD}) = m(\widehat{ADC}) = 30°$

⇒ **$|CD| = x = ?$**

A) 8 B) $8+8\sqrt{2}$ C) $8+8\sqrt{3}$ D) 24 E) 32

44.



ABCD yamuk *(trapezoid)*

$[AB] \parallel [CD]$

$|BA| = 3$ br

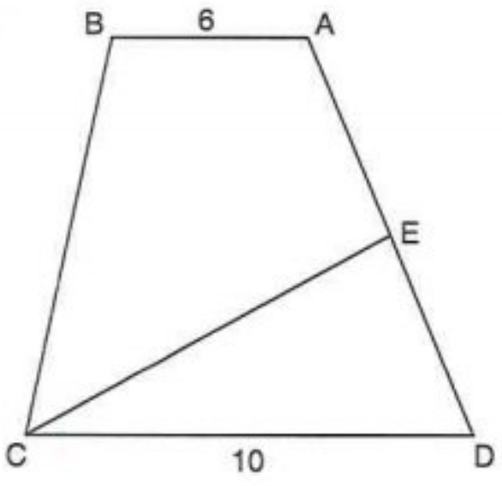
$|CD| = 5$ br

$A(ABC) = 27$ br^2

⇒ **A(ABCD) = ?**

A) 45 B) 55 C) 60 D) 64 E) 72

45.



ABCD yamuk *(trapezoid)*

$[AB] \parallel [CD]$

$3|AE| = 2|ED|$

$A(ECD) = 30$ br^2

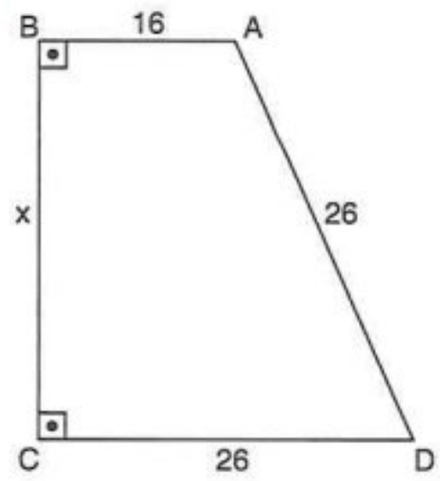
$|BA| = 6$ br

$|CD| = 10$ br

⇒ **A(ABCD) = ?**

A) 40 B) 50 C) 60 D) 76 E) 80

46.



ABCD dik yamuk *(right trapezoid)*

$|BA| = 16$ br

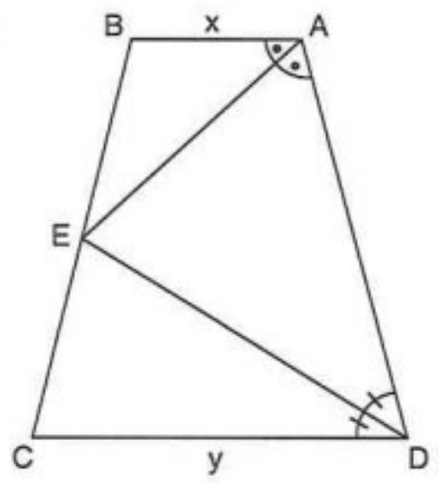
$|AD| = 26$ br

$|CD| = 26$ br

⇒ **$|BC| = x = ?$**

A) 72 B) 48 C) 24 D) 15 E) 12

47.



ABCD yamuk *(trapezoid)*

$[AE]$, $[DE]$ açıortay *(bisector)*

$[AB] \parallel [CD]$

$|AD| = 15$ br

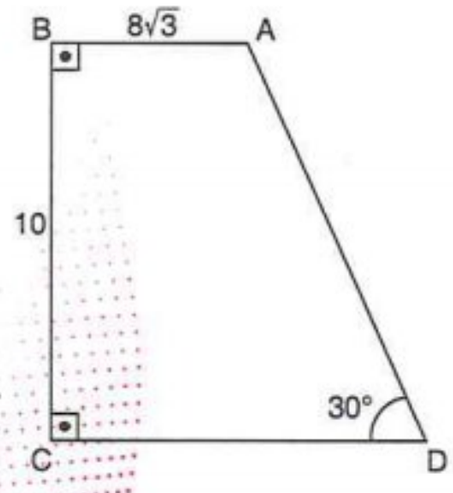
$|BA| = x$ br

$|CD| = y$ br

⇒ **$x + y = ?$**

A) 18 B) 16 C) 15 D) 9 E) 8

48.



ABCD dik yamuk *(right trapezoid)*

$|BA| = 8\sqrt{3}$ br

$|BC| = 10$ br

$m(\widehat{ADC}) = 30°$

⇒ **A(ABCD) = ?**

A) $130\sqrt{3}$ B) 120 C) $80\sqrt{3}$ D) 80 E) 75

37. D	38. C	39. A	40. C	41. B	42. B
43. C	44. E	45. E	46. C	47. C	48. A

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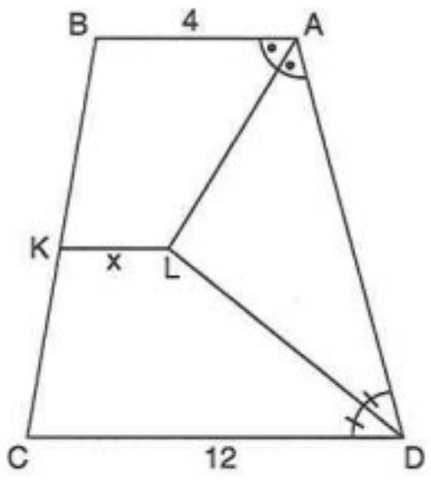
49.



ABCD yamuk *(trapezoid)*

[AB] // [LK] // [DC]

[AL], [DL] açıortay *(bisector)*

|AD| = 10 br

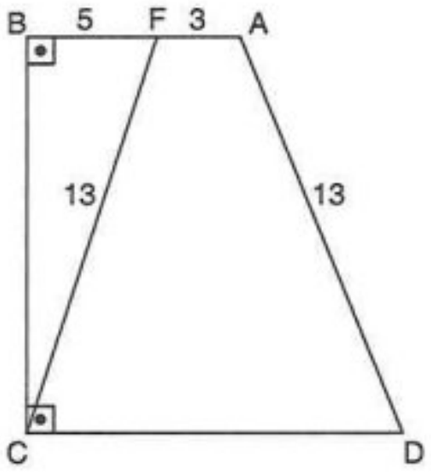
|BA| = 4 br

|CD| = 12 br

⇒ **|KL| = x = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

50.



ABCD dik yamuk *(right trapezoid)*

AFCD ikizkenar yamuk *(isosceles trapezoid)*

|BF| = 5 br

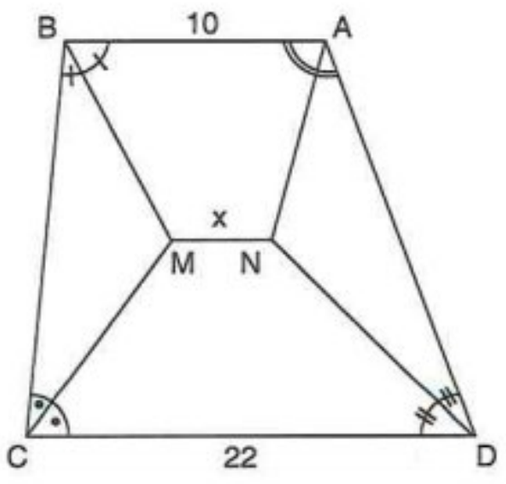
|FA| = 3 br

|FC| = |AD| = 13 br

⇒ **A(ABCD) = ?**

A) 100 B) 120 C) 126 D) 134 E) 140

51.



ABCD yamuk *(trapezoid)*

[BM], [AN], [CM], [ND] açıortay *(bisector)*

[AB] // [MN] // [CD]

|AD| = 16 br

|BC| = 8 br

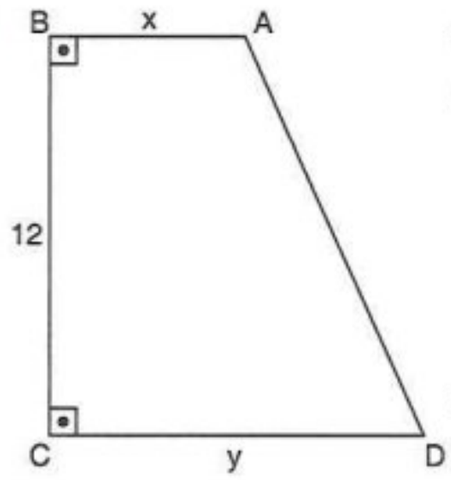
|BA| = 10 br

|CD| = 22 br

⇒ **|MN| = x = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

52.



ABCD dik yamuk *(right trapezoid)*

A(ABCD) = 96 br^2

|BA| = x br

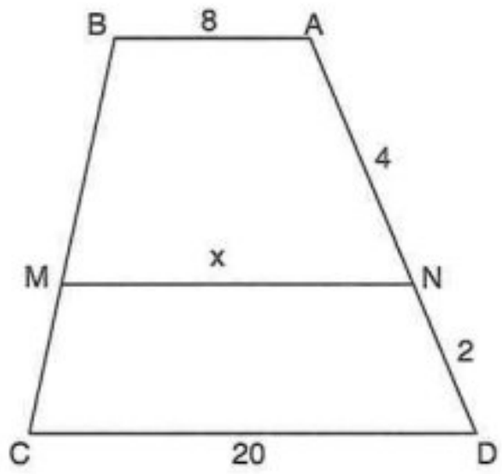
|CD| = y br

|BC| = 12 br

⇒ **x + y = ?**

A) 32 B) 24 C) 16 D) 14 E) 12

53.



ABCD yamuk *(trapezoid)*

[AB] // [NM] // [DC]

|BA| = 8 br

|AN| = 4 br

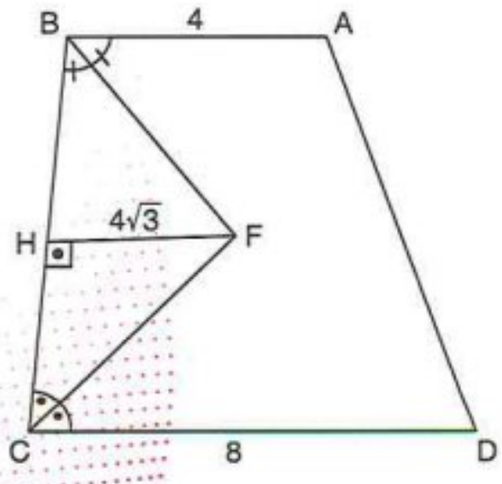
|ND| = 2 br

|CD| = 20 br

⇒ **|MN| = x = ?**

A) 24 B) 16 C) 15 D) 12 E) 9

54.



ABCD yamuk *(trapezoid)*

[BF], [FC] açıortay *(bisector)*

[BA] // [CD]

|BA| = 4 br

|HF| = $4\sqrt{3}$ br

|CD| = 8 br

⇒ **A(ABCD) = ?**

A) 24 B) 36 C) $48\sqrt{3}$ D) 64 E) $72\sqrt{3}$

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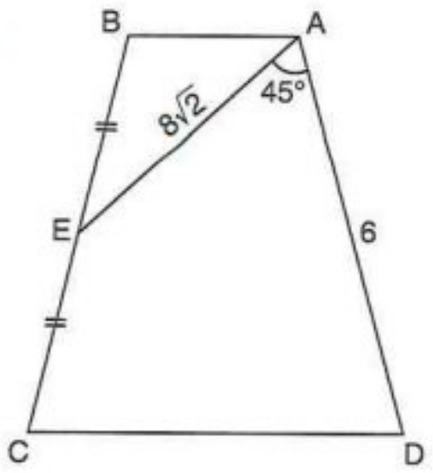
55.



ABCD yamuk *(trapezoid)*

$[AB] \parallel [CD]$

$|BE| = |EC|$

$|AE| = 8\sqrt{2}$ br

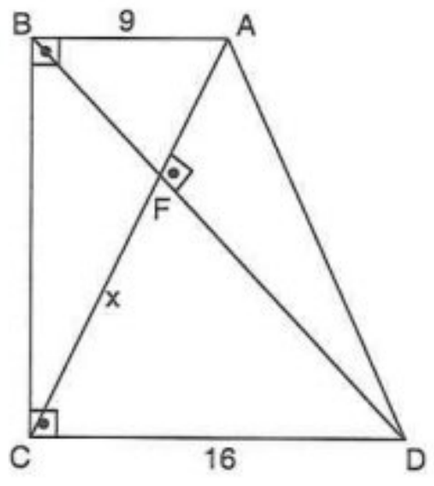
$|AD| = 6$ br

$m(\widehat{EAD}) = 45°$

⇒ A(ABCD) = ?

A) 24 B) 48 C) 60 D) 72 E) 80

56.



ABCD yamuk *(trapezoid)*

$[BA] \parallel [CD]$

$[BC] \perp [CD]$

$[BD] \perp [AC]$

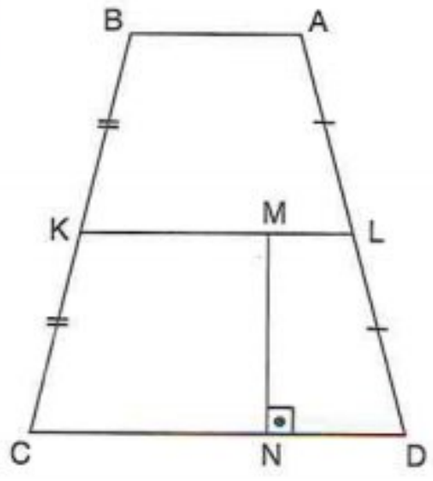
$|BA| = 9$ br

$|CD| = 16$ br

⇒ |CF| = x = ?

A) 12 B) $\frac{48}{5}$ C) 8 D) $\frac{9}{2}$ E) 4

57.



ABCD yamuk *(trapezoid)*

$[BA] \parallel [KL] \parallel [CD]$

$[MN] \perp [CD]$

$|BK| = |KC|$

$|AL| = |LD|$

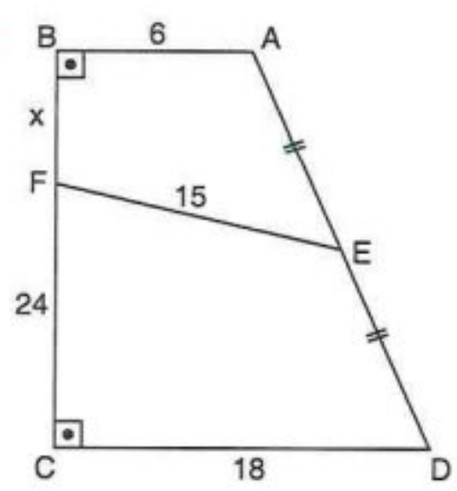
$|KL| = 8$ br

$|MN| = 3$ br

⇒ A(ABCD) = ?

A) 48 B) 45 C) 36 D) 32 E) 28

58.



ABCD dik yamuk *(right trapezoid)*

$[BA] = 6$ br

$[FE] = 15$ br

$[FC] = 24$ br

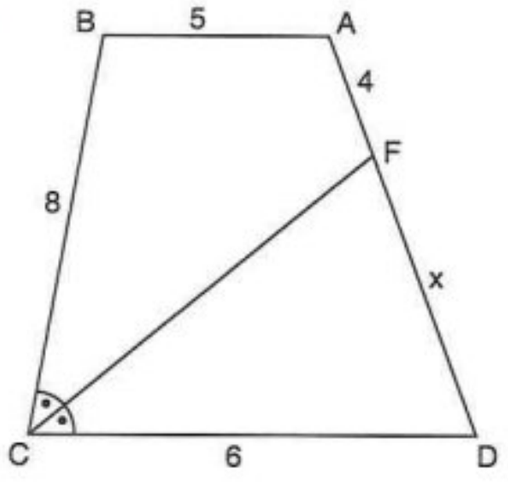
$[CD] = 18$ br

$|AE| = |ED|$

⇒ |BF| = x = ?

A) 2 B) 3 C) 4 D) 6 E) 8

59.



ABCD yamuk *(trapezoid)*

$[CF]$ açıortay *(bisector)*

$[BA] \parallel [CD]$

$|BA| = 5$ br

$|BC| = 8$ br

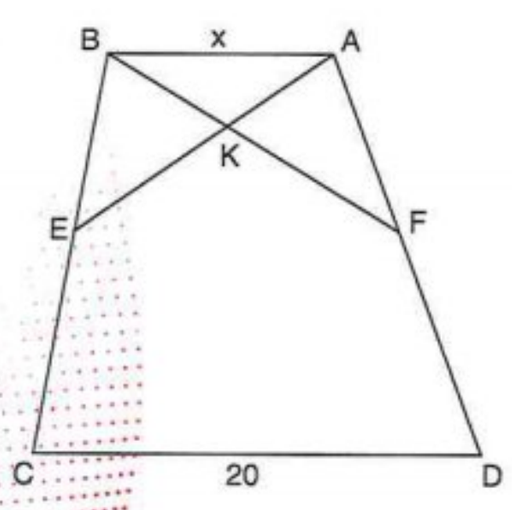
$|CD| = 6$ br

$|AF| = 4$ br

⇒ |FD| = x = ?

A) 4 B) 5 C) 6 D) 7 E) 8

60.



ABCD yamuk *(trapezoid)*

$[AB] \parallel [CD]$

$|BE| = |EC|$

$|AF| = |FD|$

$|EK| = 3|AK|$

$|CD| = 20$ br

⇒ |AB| = x = ?

A) 2 B) 4 C) 5 D) 8 E) 10

49. C	50. C	51. D	52. C	53. B	54. C
55. B	56. B	57. A	58. D	59. E	60. B

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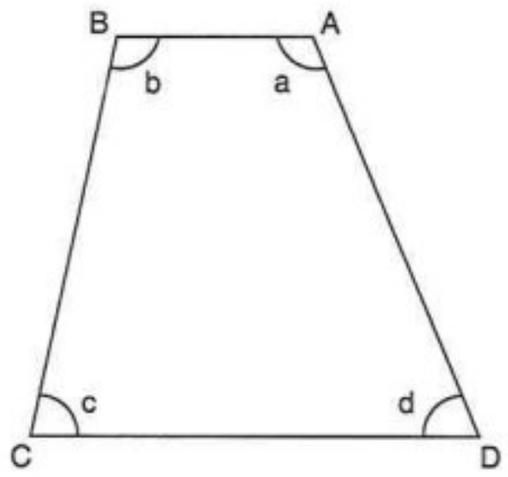
الممسوحة ضوئيا بـ CamScanner

1.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

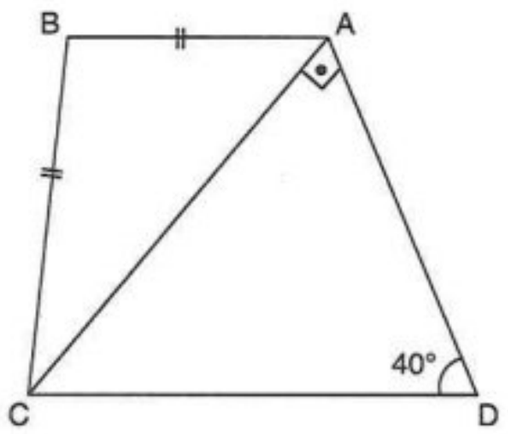
$c = 42°$

$d = 58°$

⇒ **b – a = ?**

A) 12° B) 16° C) 20° D) 24° E) 36°

2.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

[AC] ⊥ [AD]

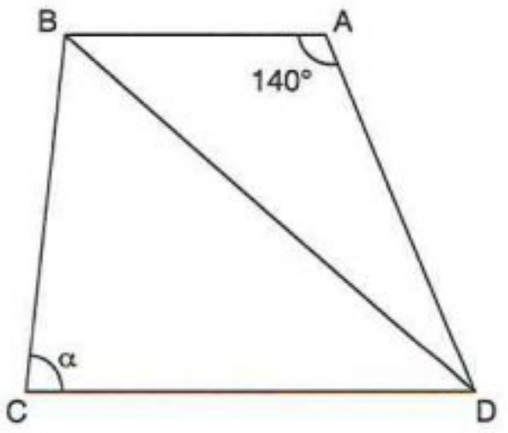
|AB| = |BC|

$m(\widehat{ADC}) = 40°$

⇒ **$m(\widehat{ABC}) = ?$**

A) 60° B) 65° C) 70° D) 75° E) 80°

3.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

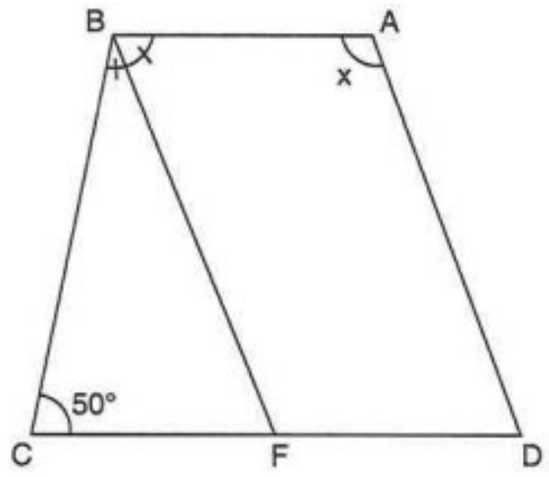
|AB| = |AD|

|BD| = |CD|

⇒ **$m(\widehat{BCD}) = \alpha = ?$**

A) 40° B) 60° C) 70° D) 75° E) 80°

4.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

[AD] // [BF]

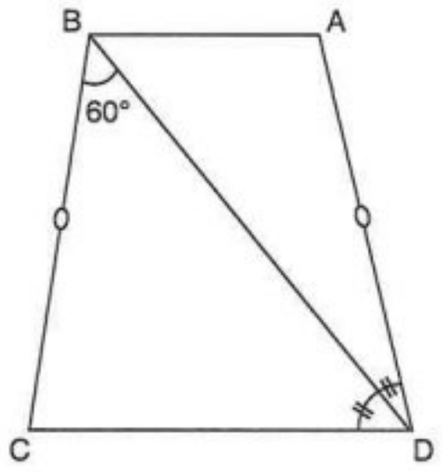
[BF] açıortay *(bisector)*

$m(\widehat{BCF}) = 50°$

⇒ **$m(\widehat{BAD}) = x = ?$**

A) 105° B) 110° C) 115° D) 120° E) 125°

5.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

|AD| = |BC|

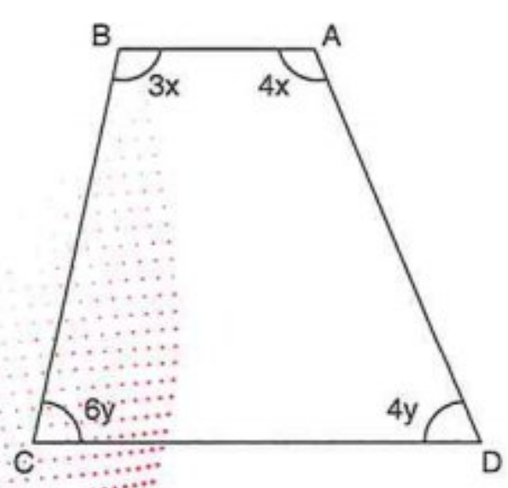
[BD] açıortay *(bisector)*

$m(\widehat{CBD}) = 60°$

⇒ **$m(\widehat{BAD}) = x = ?$**

A) 100° B) 110° C) 115° D) 120° E) 125°

5.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

$m(\widehat{A}) = 4x°$

$m(\widehat{B}) = 3x°$

$m(\widehat{C}) = 6y°$

$m(\widehat{D}) = 4y°$

⇒ **$m(\widehat{C}) = ?$**

A) 72° B) 80° C) 85° D) 88° E) 90°

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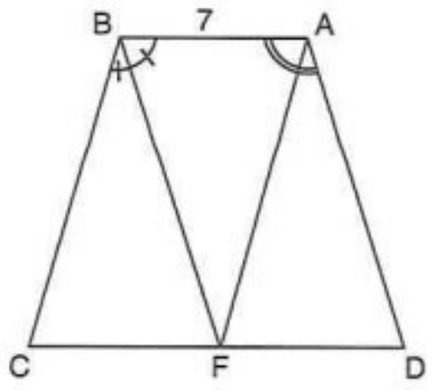
المسوحة ضوئيا بـ CamScanner

7.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

[BF] ve [AF] açıortay *(bisector)*

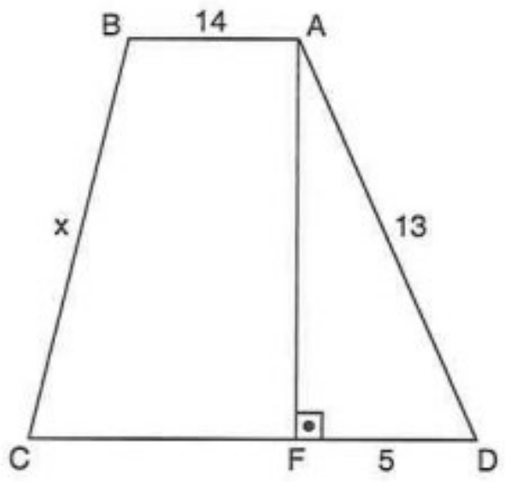
|AB| = 7 br

|CD| = 23 br

⇒ **Ç(ABCD) = ?**

A) 42 B) 48 C) 49 D) 53 E) 56

8.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

[AF] ⊥ [CD]

|CD| = 28 br

|AD| = 13 br

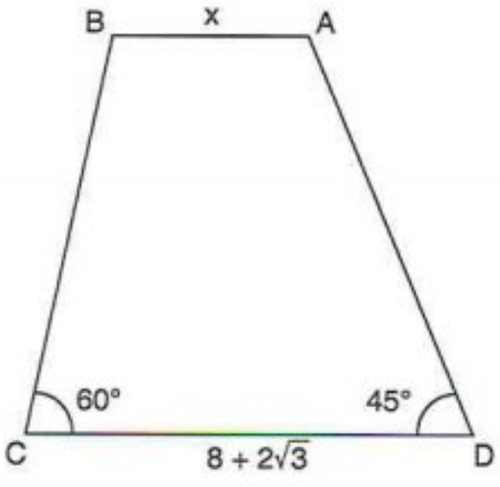
|AB| = 14 br

|FD| = 5 br

⇒ **|FD| = x = ?**

A) 15 B) 16 C) 17 D) 18 E) 19

9.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

$m(\widehat{BCD}) = 60°$

$m(\widehat{ADC}) = 45°$

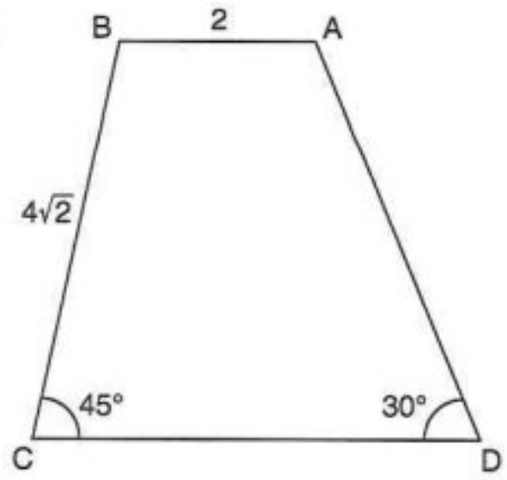
$|AD| = 2\sqrt{6}$ br

$|CD| = 8 + 2\sqrt{3}$ br

⇒ **|AB| = x = ?**

A) $\sqrt{3}$ B) $3\sqrt{2}$ C) 6 D) $6\sqrt{2}$ E) 8

10.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

|AB| = 2 br

$|BC| = 4\sqrt{2}$ br

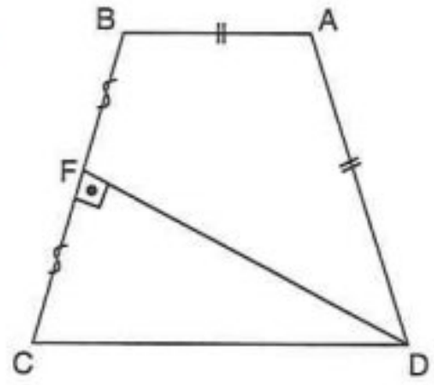
$m(\widehat{ADC}) = 30°$

$m(\widehat{BCD}) = 45°$

⇒ **|CD| + |AD| = ?**

A) $14 + 4\sqrt{3}$ B) 14 C) $12 + 2\sqrt{2}$ D) $8\sqrt{2}$ E) 8

11.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

[BC] ⊥ [DF]

|AB| = |AD|

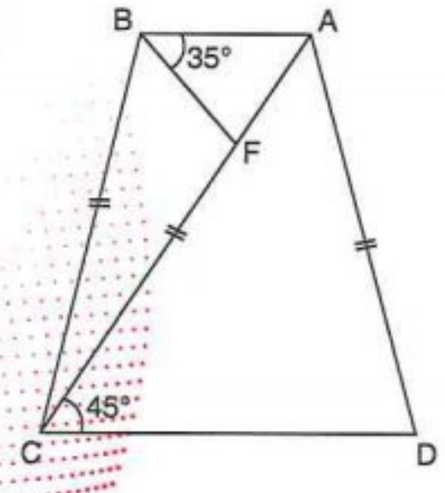
|BF| = |FC|

|AD| = 2|BF|

⇒ **$m(\widehat{FCD}) = ?$**

A) 30° B) 36° C) 45° D) 72° E) 80°

12.



ABCD ikizkenar yamuk *(isosceles trapezoid)*

[AB] // [CD]

|BC| = |CF| = |AD|

$m(\widehat{ABF}) = 35°$

$m(\widehat{ACD}) = 45°$

⇒ **$m(\widehat{CAD}) = ?$**

A) 45° B) 70° C) 75° D) 80° E) 90°

1. B	2. E	3. E	4. C	5. E	6. E
7. D	8. A	9. C	10. A	11. D	12. B

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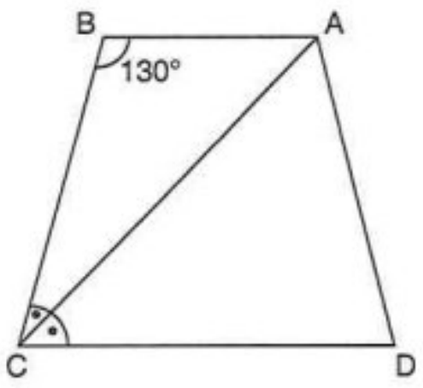
الممسوحة ضوئيا بـ CamScanner

1.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

|AC| = |AD|

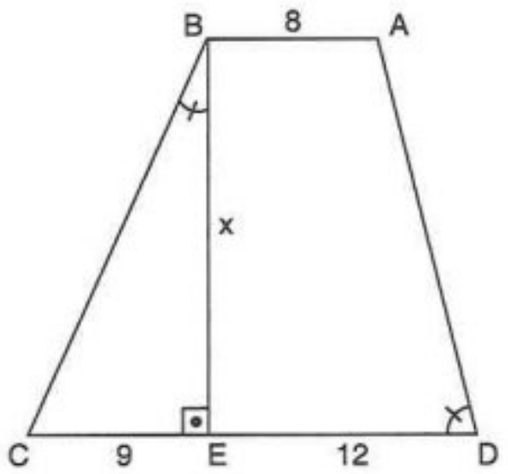
$m(\widehat{ABC}) = 130°$

$m(\widehat{BCA}) = m(\widehat{ACD})$

⇒ **$m(\widehat{BAD}) = ?$**

A) 165° B) 160° C) 155° D) 150° E) 145°

2.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

[BE] ⊥ [CD]

$m(\widehat{CBE}) = m(\widehat{ADC})$

|AB| = 8 br

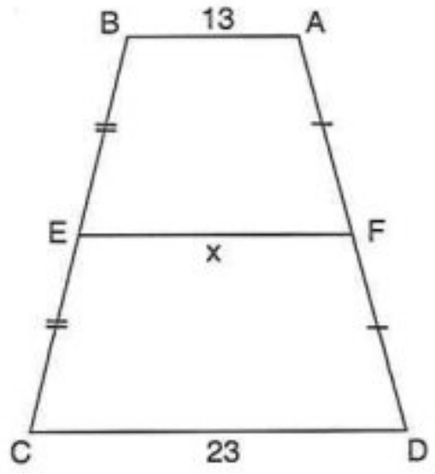
|ED| = 12 br

|EC| = 9 br

⇒ **|BE| = x = ?**

A) 4 B) 5 C) 6 D) 7 E) 8

3.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

|AF| = |FD|

|BE| = |EC|

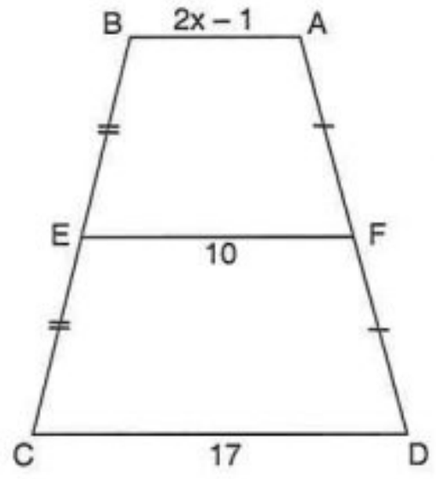
|AB| = 13 br

|CD| = 23 br

⇒ **|EF| = x = ?**

A) 18 B) 15 C) 14 D) 12 E) 10

4.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

|AF| = |FD|

|BE| = |EC|

|AB| = 2x – 1 br

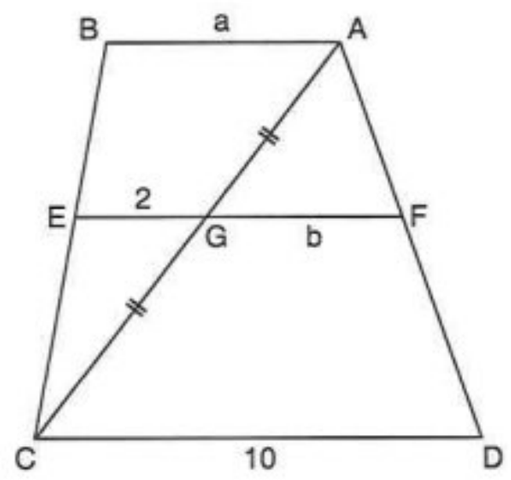
|EF| = 10 br

|CD| = 17 br

⇒ **x = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

5.



ABCD yamuk *(trapezoid)*

[AB] // [EF] // [CD]

|AB| = a br

|EG| = 2 br

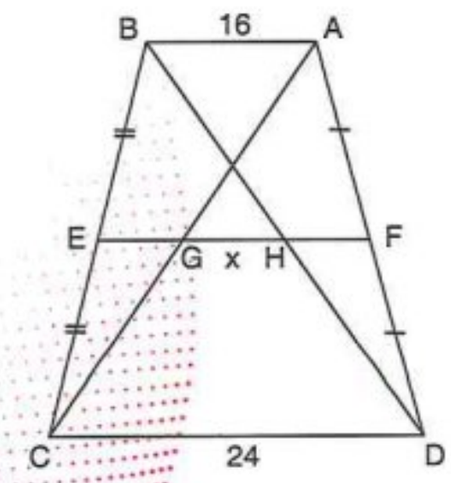
|CD| = 10 br

|AG| = |GC|

⇒ **b – a = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

6.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

|AF| = |FD|

|BE| = |EC|

|AB| = 16 br

|CD| = 24 br

⇒ **|GH| = x = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

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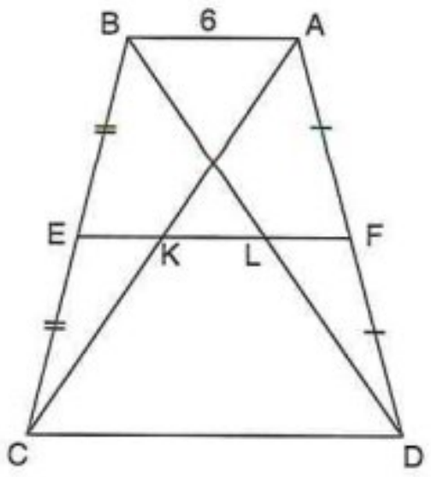
الممسوحة ضوئيا بـ CamScanner

7.



ABCD yamuk *(trapezoid)*

$|AF| = |FD|$

$|BE| = |EC|$

$|AB| = 6$ br

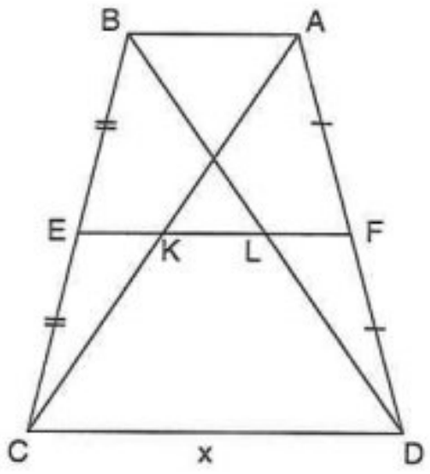
$|KL| = x - 1$ br

$|CD| = 4x$ br

$\Rightarrow x = ?$

A) 2 B) 2,5 C) 3 D) 3,5 E) 4

8.



ABCD yamuk *(trapezoid)*

$|AF| = |FD|$

$|BE| = |EC|$

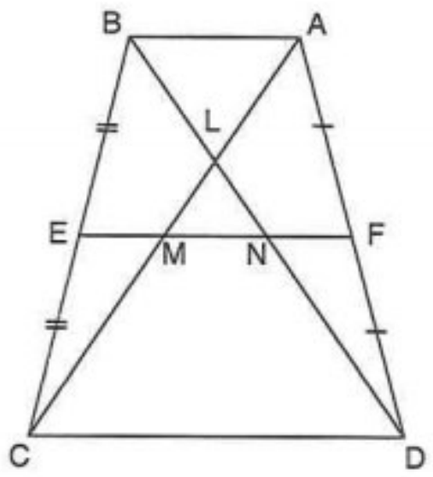
$|KL| = 5$ br

$|EF| = 21$ br

$\Rightarrow |CD| = x = ?$

A) 22 B) 23 C) 24 D) 25 E) 26

9.



ABCD yamuk *(trapezoid)*

$|AF| = |FD|$

$|BE| = |EC|$

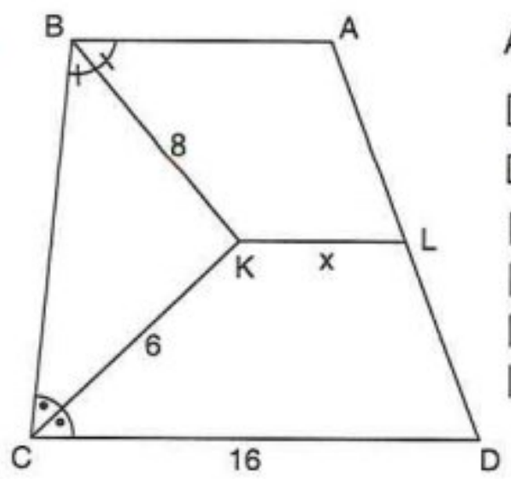
$3|ML| = 2|LA|$

$|CD| = 14$ br

$\Rightarrow |EF| = ?$

A) 10 B) 8 C) 7 D) 5 E) 4

10.



ABCD yamuk *(trapezoid)*

[BK], [CK] açıortay *(bisector)*

$[AB] \parallel [KL] \parallel [CD]$

$|BK| = 8$ br

$|KC| = 6$ br

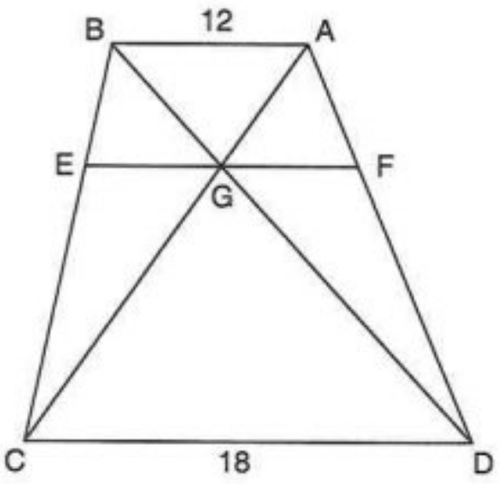
$|AB| = |KL| + 1$

$|CD| = 16$ br

$\Rightarrow |KL| = x = ?$

A) 8 B) 7 C) 6 D) 5 E) 4

11.



ABCD yamuk *(trapezoid)*

$[AB] \parallel [EF] \parallel [CD]$

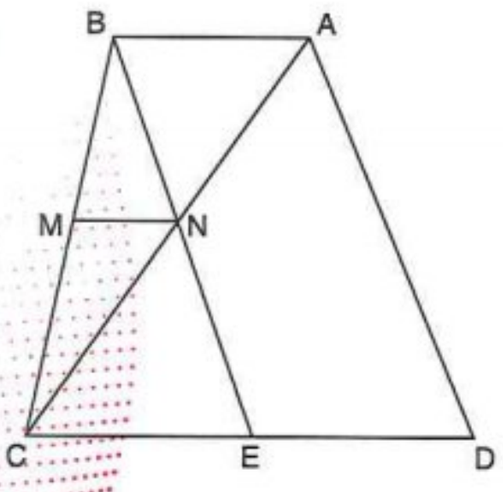
$|AB| = 12$ br

$|CD| = 18$ br

$\Rightarrow |EF| = ?$

A) 15 B) 14 C) 14,4 D) 13,5 E) 13

12.



ABCD yamuk *(trapezoid)*

$[AB] \parallel [MN] \parallel [CD]$

$[AD] \parallel [BE]$

$|AB| = 3$ br

$|CD| = 5$ br

$\Rightarrow |MN| = ?$

A) 1 B) $\frac{3}{4}$ C) $\frac{5}{2}$ D) $\frac{5}{3}$ E) $\frac{6}{5}$

1. C	2. C	3. A	4. B	5. A	6. D
7. A	8. E	9. A	10. B	11. C	12. E

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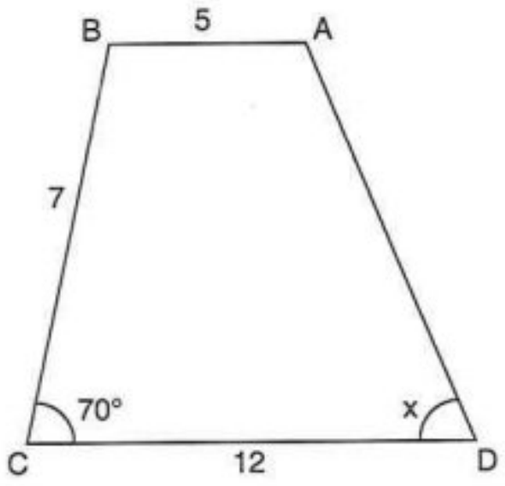
الممسوحة ضوئيا بـ CamScanner

1.



ABCD yamuk *(trapezoid)*

$[AB] \parallel [CD]$

$|AB| = 5$ br

$|BC| = 7$ br

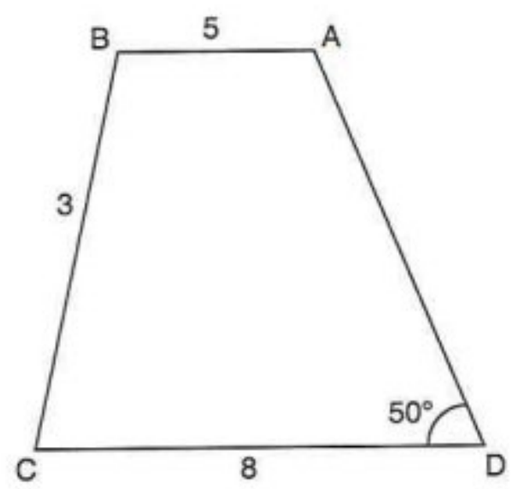
$|CD| = 12$ br

$m(B\widehat{C}D) = 70°$

⇒ $\mathbf{m(A\widehat{D}C) = x = ?}$

A) 35° B) 50° C) 55° D) 60° E) 65°

2.



ABCD yamuk *(trapezoid)*

$[AB] \parallel [CD]$

$|AB| = 5$ br

$|BC| = 3$ br

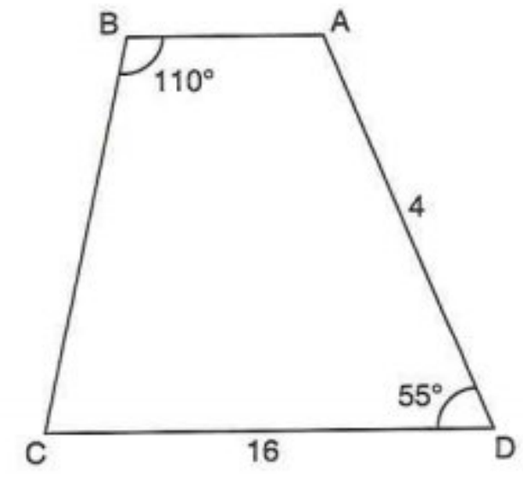
$|CD| = 8$ br

$m(A\widehat{D}C) = 50°$

⇒ $\mathbf{m(A\widehat{B}C) = ?}$

A) 100° B) 80° C) 60° D) 55° E) 50°

3.



ABCD yamuk *(trapezoid)*

$[AB] \parallel [CD]$

$|AD| = 4$ br

$|CD| = 16$ br

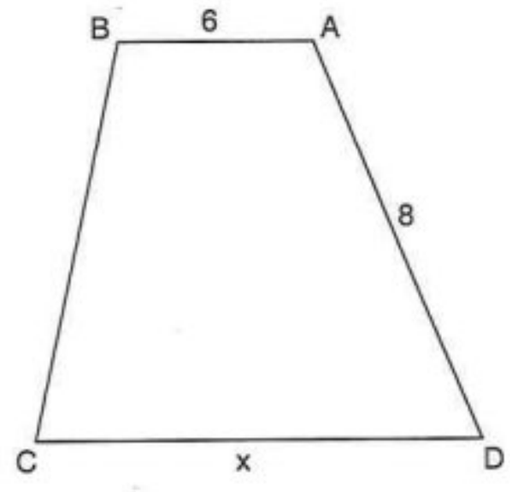
$m(A\widehat{D}C) = 55°$

$m(A\widehat{B}C) = 110°$

⇒ **Ç(ABCD) = ?**

A) 24 B) 36 C) 40 D) 42 E) 56

4.



ABCD yamuk *(trapezoid)*

$[AB] \parallel [CD]$

$|AB| = 6$ br

$|AD| = 8$ br

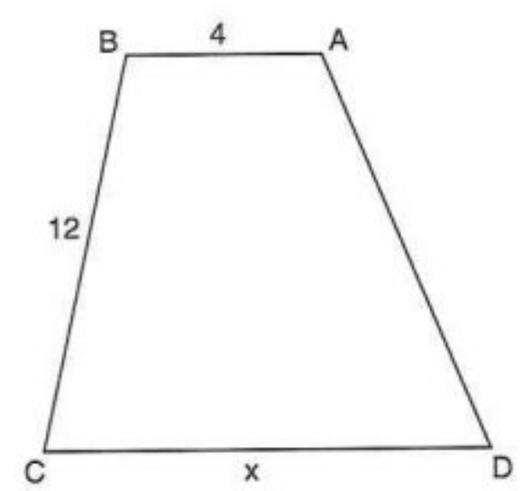
$m(A\widehat{D}C) = 70°$

$m(A\widehat{B}C) = 125°$

⇒ $\mathbf{|CD| = x = ?}$

A) 20 B) 18 C) 16 D) 14 E) 12

5.



ABCD yamuk *(trapezoid)*

$[AB] \parallel [CD]$

$|AB| = 4$ br

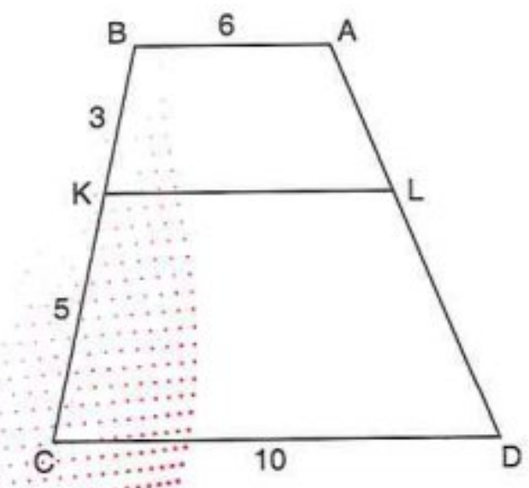
$|BC| = 12$ br

$m(\widehat{B}) = 2m(\widehat{D})$

⇒ $\mathbf{|CD| = x = ?}$

A) 16 B) 12 C) $4\sqrt{5}$ D) $4\sqrt{3}$ E) 8

6.



ABCD yamuk *(trapezoid)*

$[AB] \parallel [KL] \parallel [CD]$

$|AB| = 6$ br

$|BK| = 3$ br

$|KC| = 5$ br

$|CD| = 10$ br

⇒ $\mathbf{|KL| = ?}$

A) $\frac{19}{2}$ B) $\frac{15}{2}$ C) 8 D) 7 E) $\frac{17}{2}$

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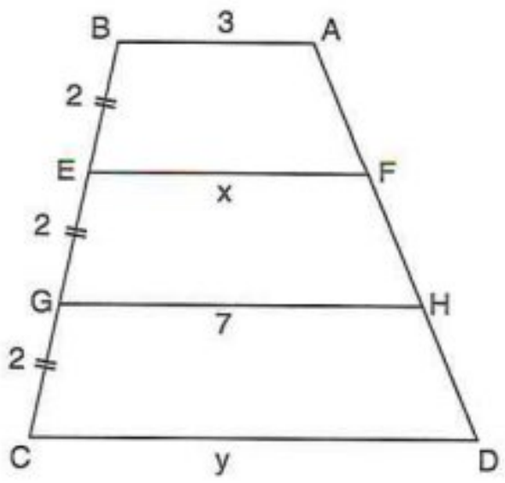
7.



ABCD yamuk *(trapezoid)*

[AB] // [EF] // [GH] // [CD]

|BE| = |EG| = |GC| = 2 br

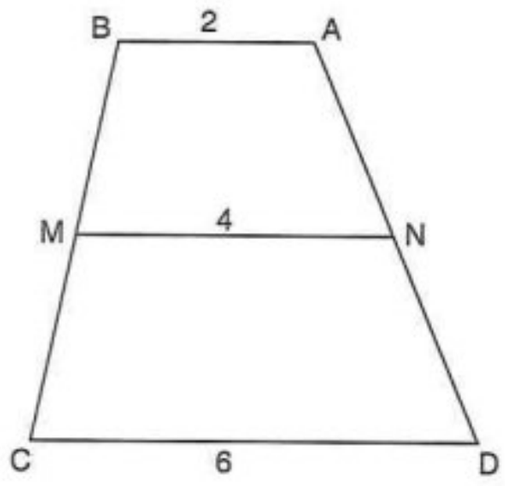
|AB| = 3 br

|GH| = 7 br

⇒ **x + y = ?**

A) 20 B) 18 C) 16 D) 14 E) 12

8.



ABCD yamuk *(trapezoid)*

[AB] // [MN] // [CD]

|AB| = 2 br

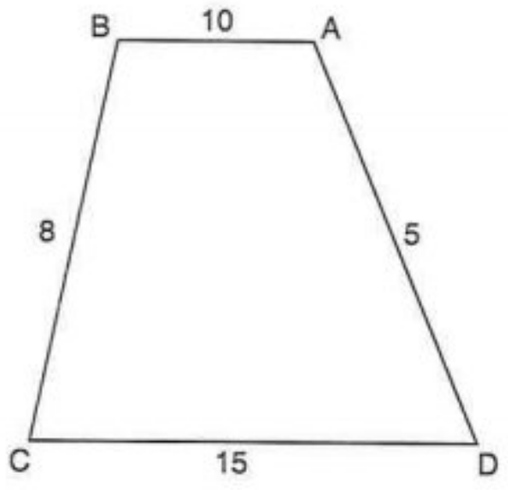
|MN| = 4 br

|CD| = 6 br

⇒ $\frac{|BM|}{|MC|} = ?$

A) $\frac{4}{3}$ B) $\frac{3}{2}$ C) 1 D) $\frac{1}{2}$ E) $\frac{1}{3}$

9.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

|AB| = 10 br

|BC| = 8 br

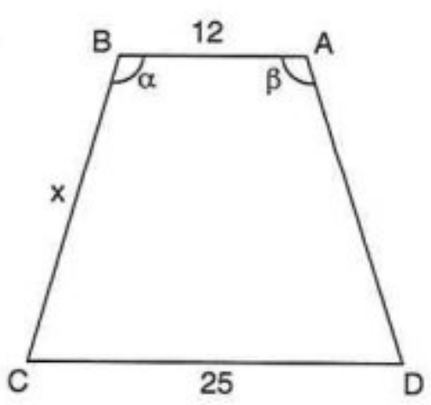
|AD| = 5 br

|CD| = 15 br

⇒ **A(ABCD) = ?**

A) 30 B) $25\sqrt{2}$ C) 48 D) 60 E) 72

10.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

|AB| = 12 br

|AD| = 12 br

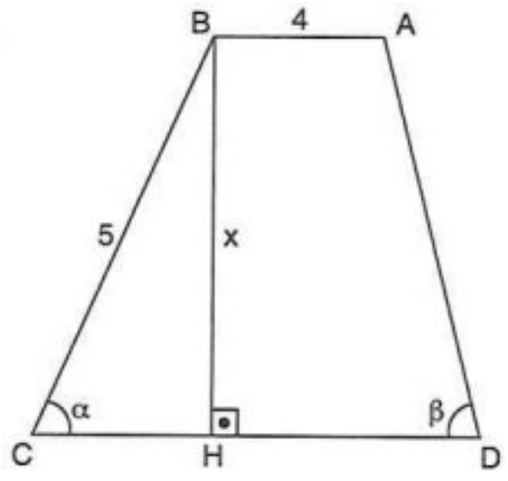
|CD| = 25 br

$\alpha + \beta = 270°$

⇒ **|BC| = x = ?**

A) 13 B) 12 C) 10 D) 8 E) 5

11.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

[BH] ⊥ [CD]

|AB| = 4 br

|BC| = 5 br

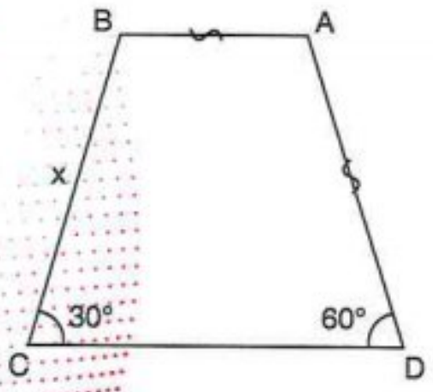
|CD| = 17 br

$\alpha + \beta = 90°$

⇒ **|BH| = x = ?**

A) $\frac{60}{13}$ B) $\frac{54}{13}$ C) $\frac{51}{13}$ D) $\frac{48}{13}$ E) $\frac{44}{13}$

12.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

|AB| = |AD|

$m(\widehat{BCD}) = 30°$

$m(\widehat{ADC}) = 60°$

$A(ABCD) = 20\sqrt{3}$ br

⇒ **|BC| = x = ?**

A) $4\sqrt{3}$ B) $2\sqrt{15}$ C) $6\sqrt{2}$ D) 9 E) 10

1. C	2. A	3. B	4. D	5. A	6. B
7. D	8. C	9. D	10. E	11. A	12. B

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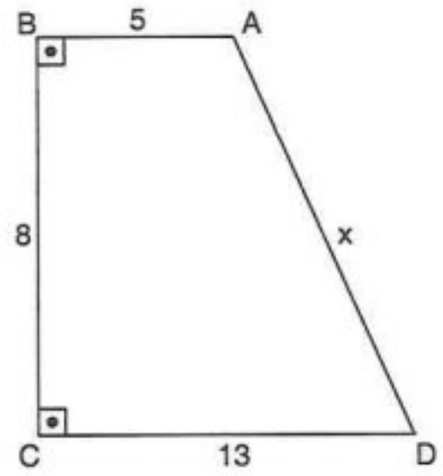
1.



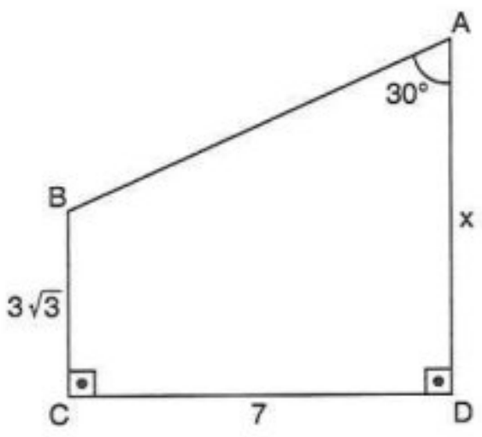
ABCD dik yamuk *(right trapezoid)*

$[AB] \perp [BC]$
$|AB| = 5$ br
$|BC| = 8$ br
$|CD| = 13$ br

⇒ $|AD| = x = ?$

A) 12 B) 10 C) $5\sqrt{3}$ D) $8\sqrt{2}$ E) 6

2.



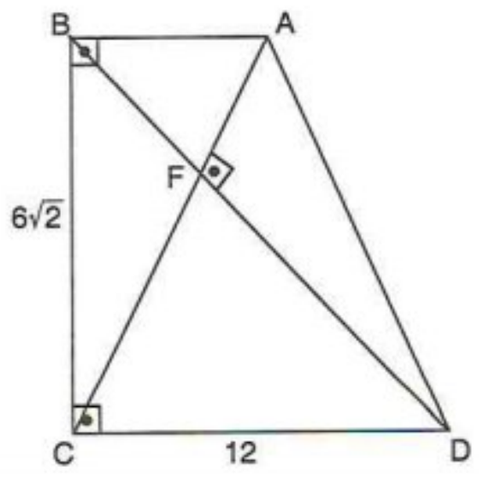
ABCD dik yamuk
(right trapezoid)

$[AD] \perp [DC]$, $[BC] \perp [DC]$
$m(\widehat{BAD}) = 30°$
$|BC| = 3\sqrt{3}$ br
$|CD| = 7$ br

⇒ $|AD| = x = ?$

A) $4\sqrt{6}$ B) $10\sqrt{3}$ C) $6\sqrt{6}$ D) $8\sqrt{6}$ E) 18

3.



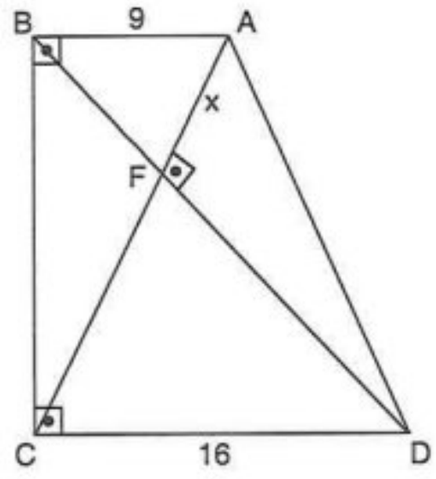
ABCD dik yamuk
(right trapezoid)

$[AB] \perp [BC]$
$[AC] \perp [BD]$
$|BC| = 6\sqrt{2}$ br
$|CD| = 12$ br

⇒ $|AC| = ?$

A) 16 B) 12 C) $6\sqrt{5}$ D) $6\sqrt{3}$ E) 7

4.



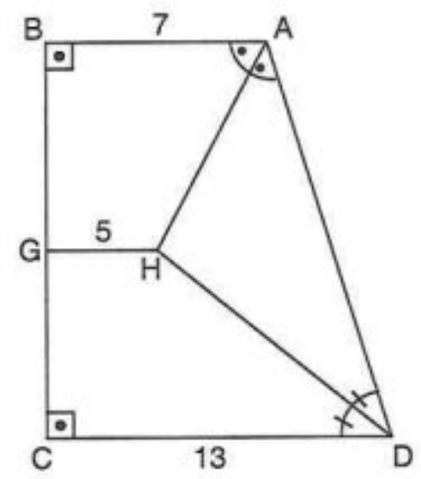
ABCD dik yamuk *(right trapezoid)*

$[AB] \perp [BC]$
$[BD] \perp [AC]$
$|AB| = 9$ br
$|CD| = 16$ br

⇒ $|AF| = x = ?$

A) 3 B) $\frac{9}{2}$ C) 5 D) $\frac{27}{5}$ E) $\frac{36}{5}$

5.



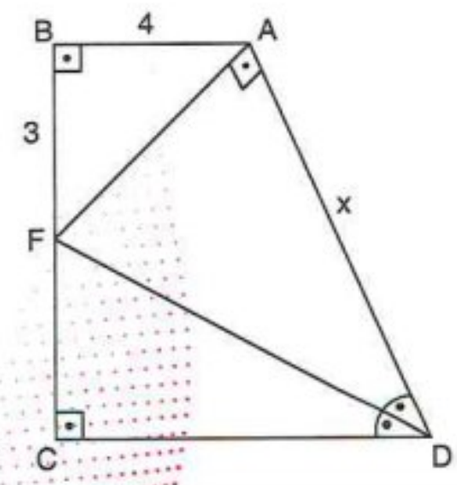
ABCD dik yamuk (*right trapezoid*)

$[AB] /\!/ [GH] /\!/ [CD]$
$[AB] \perp [BC]$
$[BC] \perp [CD]$
$m(\widehat{BAH}) = m(\widehat{HAD})$
$m(\widehat{ADH}) = m(\widehat{CDH})$
$|AB| = 7$ br
$|GH| = 5$ br
$|CD| = 13$ br

⇒ **Ç(ABCD) = ?**

A) 38 B) 37 C) 36 D) 35 E) 34

6.



ABCD dik yamuk
(*right trapezoid*)

$[AF] \perp [AD]$, $[BC] \perp [CD]$
$[FD]$ açıortay *(bisector)*
$|AB| = 4$ br
$|BF| = 3$ br

⇒ $|AD| = x = ?$

A) 6 B) 7 C) 8 D) 9 E) 10

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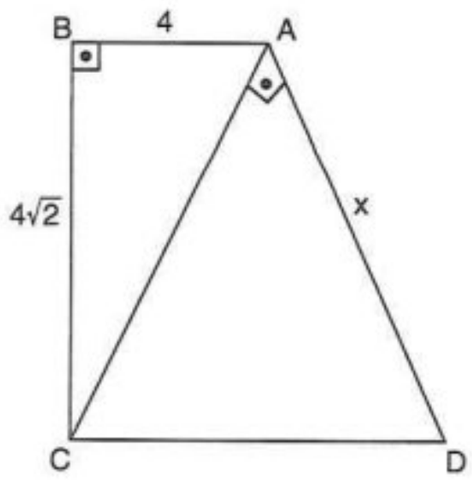
7.



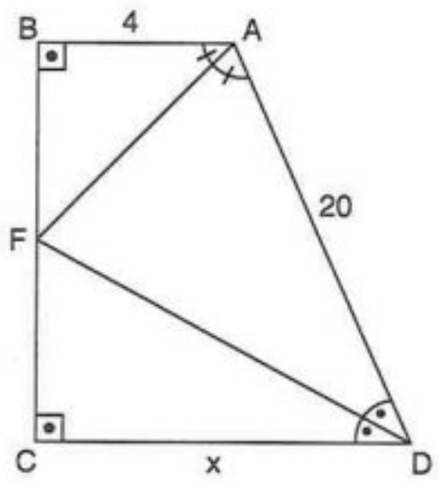
ABCD dik yamuk
(*right trapezoid*)

$[AB] \perp [BC]$
$[AC] \perp [AD]$
$|AB| = 4$ br
$|BC| = 4\sqrt{2}$ br

$\Rightarrow |AD| = x = ?$

A) $4\sqrt{3}$ B) $4\sqrt{6}$ C) 9 D) 12 E) $12\sqrt{2}$

8.



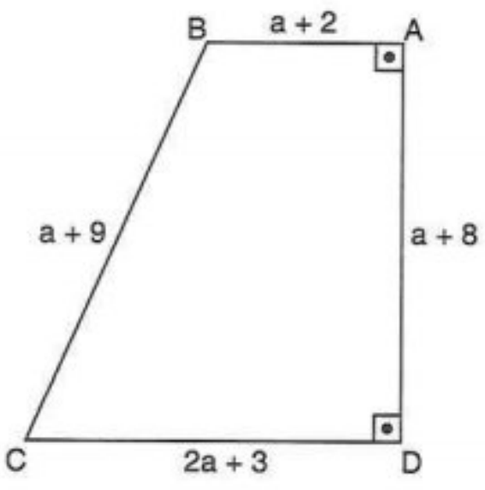
ABCD dik yamuk
(*right trapezoid*)

$[AB] \perp [BC]$
[AF] ve [FD] açıortay (bisector)
$|AB| = 4$ br
$|AD| = 20$ br

$\Rightarrow |CD| = x = ?$

A) 16 B) 8 C) $4\sqrt{2}$ D) 4 E) 3

9.



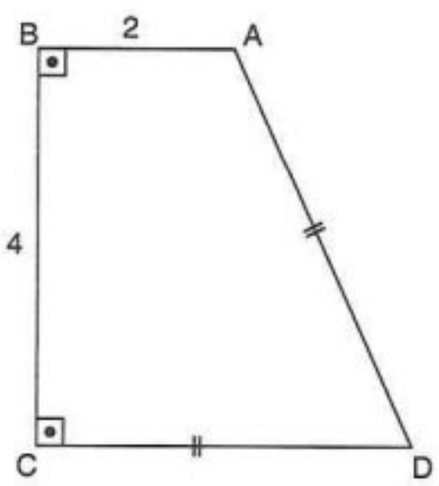
ABCD dik yamuk
(*right trapezoid*)

$[AB] \perp [AD]$
$|AB| = a + 2$ br
$|BC| = a + 9$ br
$|CD| = 2a + 3$ br
$|AD| = a + 8$ br

$\Rightarrow a = ?$

A) 4 B) $\frac{9}{2}$ C) 5 D) 6 E) 8

10.



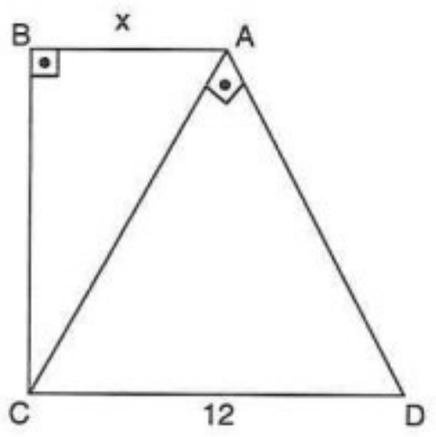
ABCD dik yamuk
(*right trapezoid*)

$[AB] \perp [BC]$
$|AB| = 2$ br
$|BC| = 4$ br
$|AD| = |CD|$

$\Rightarrow |CD| = ?$

A) 4 B) 5 C) $6\sqrt{2}$ D) $7\sqrt{2}$ E) 8

11.



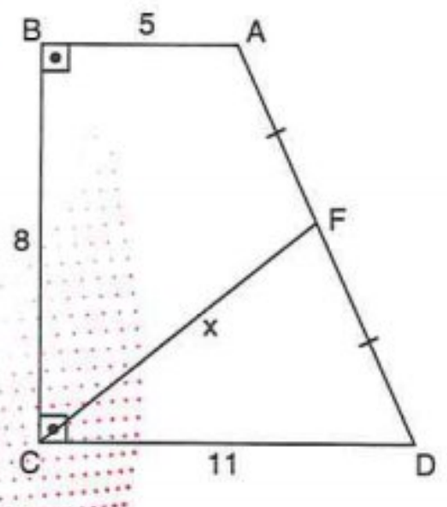
ABCD dik yamuk
(*right trapezoid*)

$[AB] \perp [BC]$
$[AC] \perp [AD]$
$|CD| = 12$ br
$|AB| = x$
$|BC| = 4x$

$\Rightarrow x = ?$

A) $\frac{3}{4}$ B) $\frac{1}{2}$ C) $\frac{9}{17}$ D) $\frac{10}{17}$ E) $\frac{12}{17}$

12.



ABCD dik yamuk
(*right trapezoid*)

$[AB] \perp [BC]$
$|AF| = |FD|$
$|AB| = 5$ br
$|BC| = 8$ br
$|CD| = 11$ br

$\Rightarrow |CF| = x = ?$

A) 16 B) $4\sqrt{5}$ C) 20 D) 22 E) $22\sqrt{2}$

1. D	2. B	3. D	4. D	5. A	6. E
7. B	8. A	9. A	10. B	11. E	12. B

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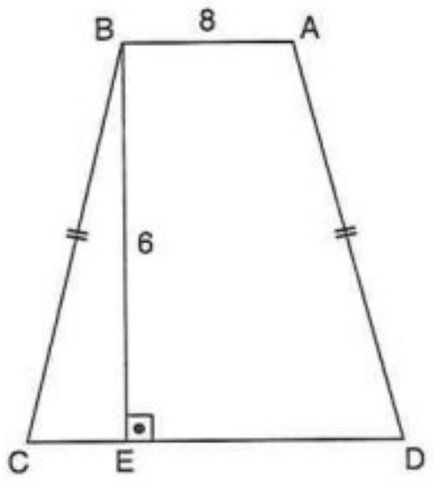
1.



ABCD ikizkenar yamuk
(isosceles trapezoid)

$[AB] \,/\!/\, [CD]$

$|AD| = |BC|$

$[CD] \perp [BE]$

$|AB| = 8$ br

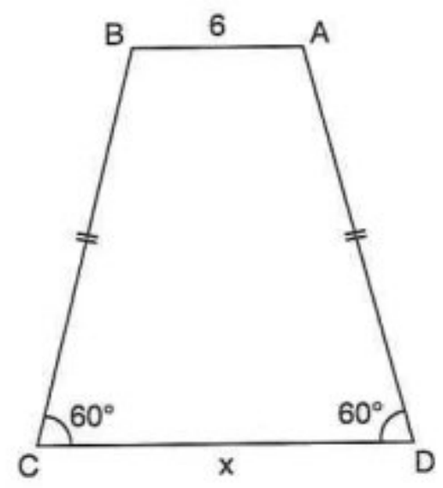
$|BE| = 6$ br

$|CD| = 24$ br

⇒ **$|AD| = ?$**

A) 10 B) $6\sqrt{2}$ C) $6\sqrt{3}$ D) 12 E) 16

2.



ABCD ikizkenar yamuk
(isosceles trapezoid)

$[AB] \,/\!/\, [CD]$

$|AD| = |BC| = 8$ br

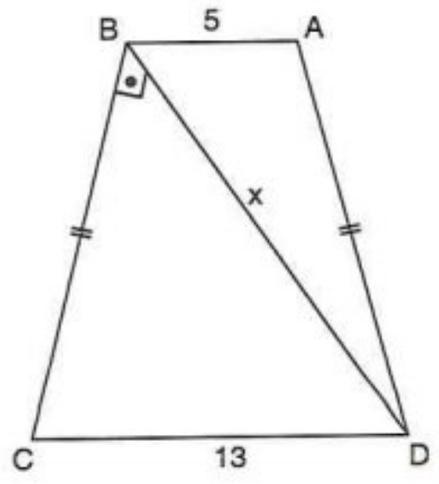
$m(\widehat{BCD}) = m(\widehat{ADC}) = 60°$

$|AB| = 6$ br

⇒ **$|CD| = x = ?$**

A) 14 B) $8\sqrt{3}$ C) 12 D) 10 E) 9

3.



ABCD ikizkenar yamuk
(isosceles trapezoid)

$[AB] \,/\!/\, [CD]$

$[BC] \perp [BD]$

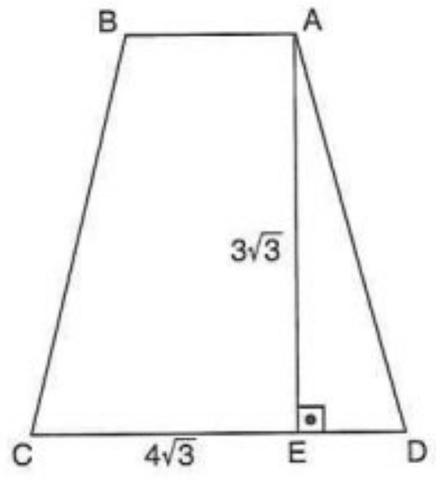
$|AB| = 5$ br

$|CD| = 13$ br

⇒ **$|BD| = x = ?$**

A) 9 B) 10 C) $3\sqrt{10}$ D) $3\sqrt{13}$ E) $6\sqrt{3}$

4.



ABCD ikizkenar yamuk
(isosceles trapezoid)

$[AB] \,/\!/\, [CD]$

$|AD| = |BC|$

$[AE] \perp [CD]$

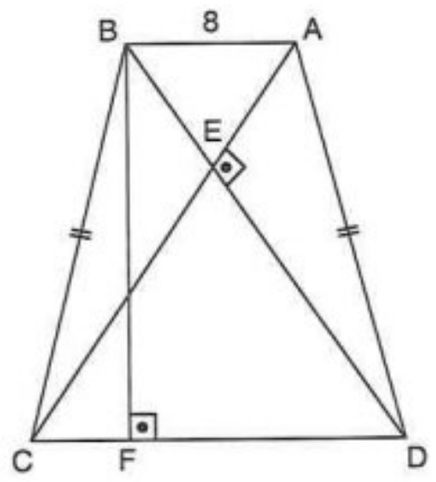
$|AE| = 3\sqrt{3}$ br

$|CE| = 4\sqrt{3}$ br

⇒ **A(ABCD) = ?**

A) 18 B) 24 C) 30 D) 36 E) 48

5.



ABCD ikizkenar yamuk
(isosceles trapezoid)

$[AB] \,/\!/\, [CD]$

$[AC] \perp [BD]$, $[BF] \perp [CD]$

$|AB| = 8$ br

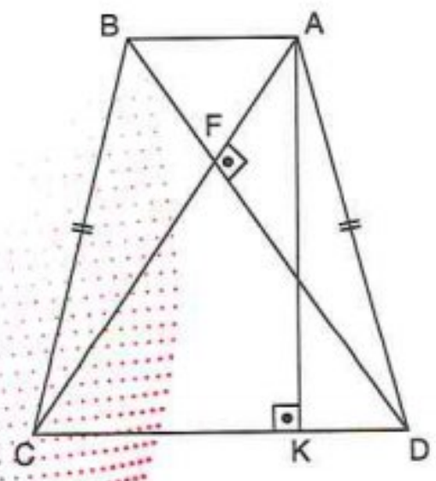
$|CD| = 16$ br

$|AD| = |BC|$

⇒ **$|AD| = ?$**

A) 10 B) 12 C) $4\sqrt{10}$ D) $8\sqrt{3}$ E) 16

6.



ABCD ikizkenar yamuk
(isosceles trapezoid)

$[AB] \,/\!/\, [CD]$

$[AC] \perp [BD]$, $[AK] \perp [CD]$

$|AD| = |BC|$

$|AK| = 6\sqrt{2}$ br

⇒ **A(ABCD) = ?**

A) 144 B) 120 C) 96 D) 80 E) 72

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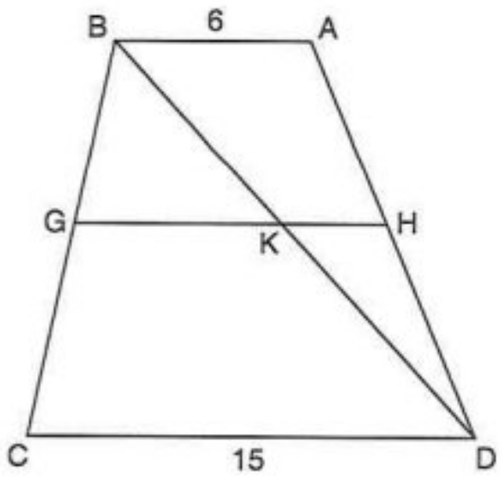
7.



ABCD yamuk *(trapezoid)*

[AB] // [GH] // [CD]

|AB| = 6 br

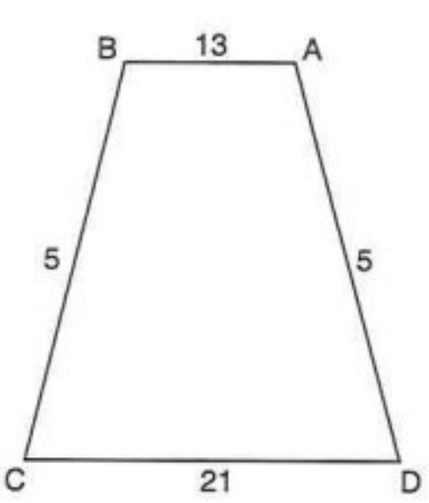
|CD| = 15 br

|DA| = 3|HA|

⇒ **|GK| − |KH| = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

8.



ABCD ikizkenar yamuk *(isosceles trapezoid)*

|AD| = |BC| = 5 br

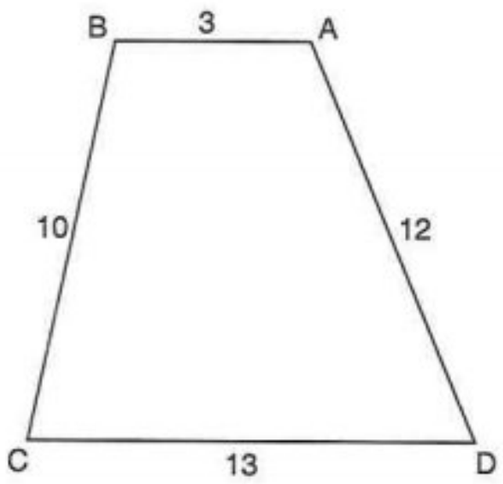
|AB| = 13 br

|CD| = 21 br

⇒ **A(ABCD) = ?**

A) 65 B) 51 C) 49 D) 45 E) 36

9.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

|AB| = 3 br

|AD| = 12 br

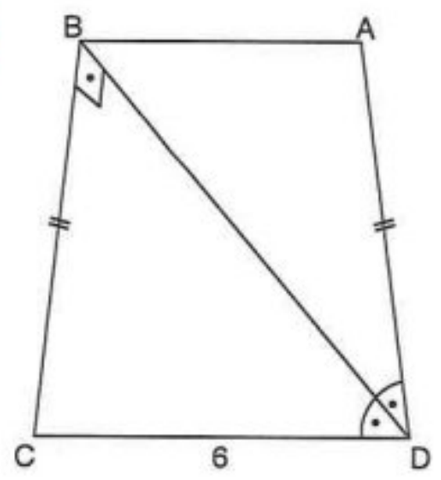
|BC| = 10 br

|CD| = 13 br

⇒ **A(ABCD) = ?**

A) 72,5 B) 72,8 C) 75,6 D) 76,4 E) 76,8

10.



ABCD ikizkenar yamuk *(isosceles trapezoid)*

[AB] // [CD]

[BC] ⊥ [BD]

|BC| = |AD|

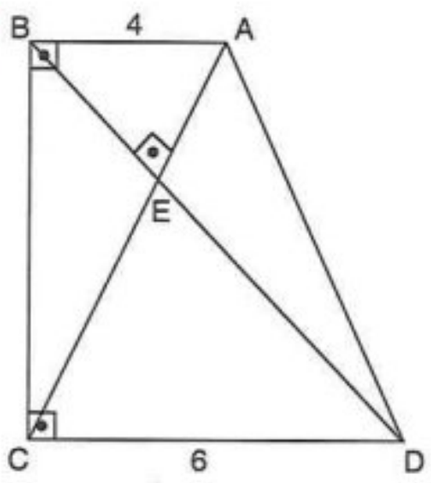
[BD] açıortay *(bisector)*

|CD| = 6 br

⇒ **A(ABCD) = ?**

A) $\frac{27\sqrt{3}}{4}$ B) $42\sqrt{3}$ C) 54 D) $\frac{33\sqrt{3}}{4}$ E) 72

11.



ABCD dik yamuk *(right trapezoid)*

[BC] ⊥ [CD]

[AC] ⊥ [BD]

|AB| = 4 br

|CD| = 6 br

⇒ $\frac{\mathbf{A(ABCD)}}{\mathbf{A(\widehat{ABE})}} = ?$

A) $\frac{35}{8}$ B) $\frac{35}{2}$ C) $\frac{25}{3}$ D) $\frac{25}{4}$ E) $\frac{25}{2}$

12.

ABCD ikizkenar yamuk *(isosceles trapezoid)*

[AB] // [CD]

[BF] ⊥ [FD]

|AD| = |BC| = 10 br

|AF| = 8 br

[BD] açıortay *(bisector)*

⇒ **A(ABCD) = ?**

A) 72 B) 80 C) 108 D) 120 E) 144

1. A	2. A	3. D	4. D	5. C	6. E
7. A	8. B	9. E	10. A	11. D	12. C

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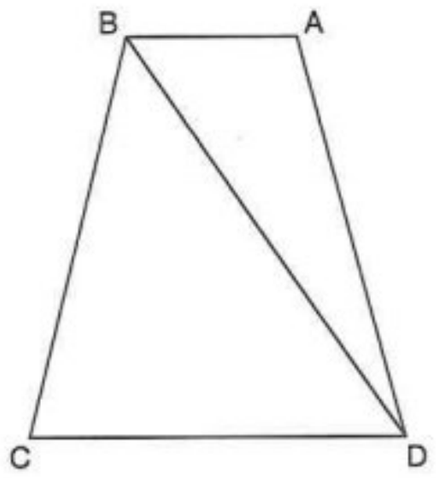
1.



ABCD yamuk *(trapezoid)*

$[AB] \parallel [CD]$

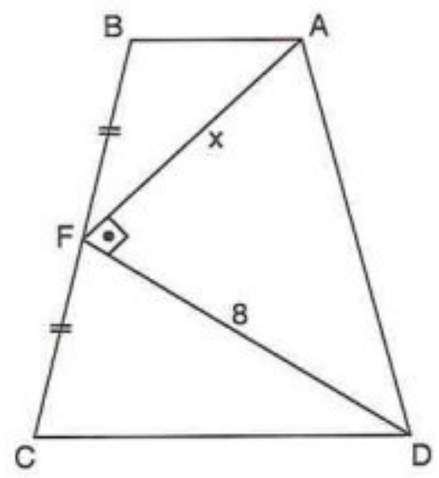
$3|AB| = 2|CD|$

$A(ABCD) = 80\ br^2$

⇒ **A(ABD) = ?**

A) 24 B) 28 C) 32 D) 36 E) 40

2.



ABCD yamuk *(trapezoid)*

$[AB] \parallel [CD]$

$[AF] \perp [FD]$

$|BF| = |FC|$

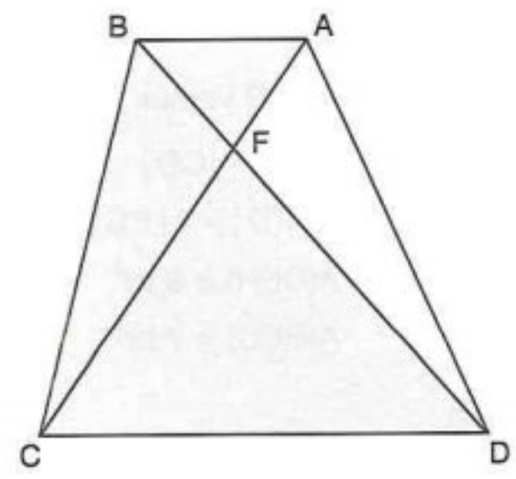
$|FD| = 8\ br$

$A(ABCD) = 40\ br^2$

⇒ **$|AF| = x = ?$**

A) 5 B) 4 C) 3 D) 2 E) 1

3.



ABCD yamuk *(trapezoid)*

$[AB] \parallel [CD]$

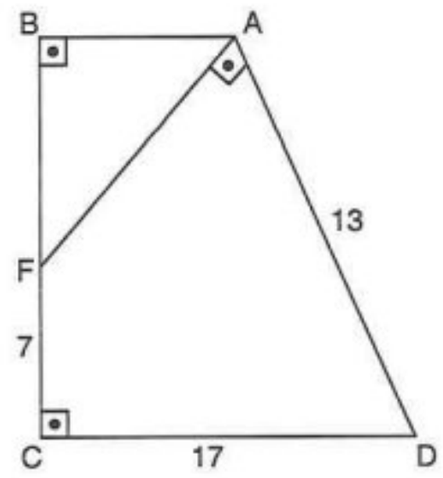
$\frac{|AB|}{|CD|} = \frac{2}{3}$

$A(ABCD) = 150\ br^2$

⇒ **A(ABCDF) = ?**

A) 100 B) 108 C) 112 D) 114 E) 120

4.



ABCD dik yamuk *(right trapezoid)*

$[BC] \perp [CD]$

$[AF] \perp [AD]$

$|AD| = 13\ br$

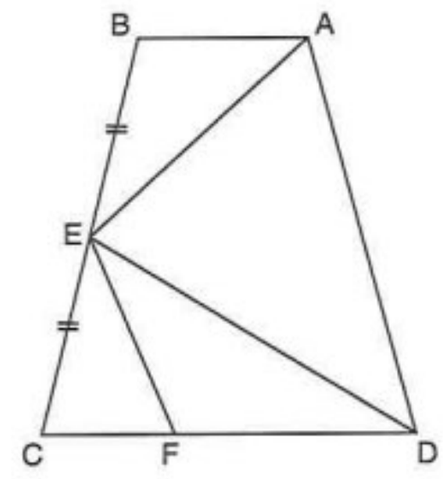
$|FC| = 7\ br$

$|CD| = 17\ br$

⇒ **A(AFCD) = ?**

A) 34 B) 64 C) 96 D) 120 E) 144

5.



ABCD yamuk *(trapezoid)*

$[AB] \parallel [CD]$

$|BE| = |EC|$

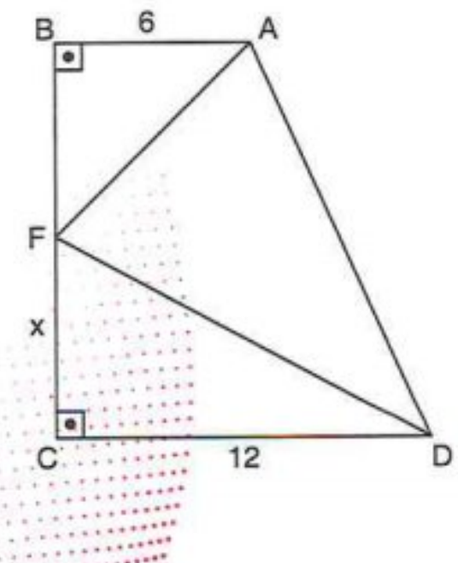
$\frac{|CF|}{2} = \frac{|AB|}{3} = \frac{|FD|}{5}$

$A(ABCD) = 100\ br^2$

⇒ **A(EFD) = ?**

A) 25 B) 30 C) 40 D) 45 E) 50

6.



ABCD dik yamuk *(right trapezoid)*

$[BC] \perp [CD]$

$|AB| = 6\ br$

$|CD| = 12\ br$

$|BC| = 8\ br$

$A(AFD) = 33\ br^2$

⇒ **$|FC| = x = ?$**

A) 2 B) $\frac{5}{2}$ C) $\frac{7}{2}$ D) 4 E) 5

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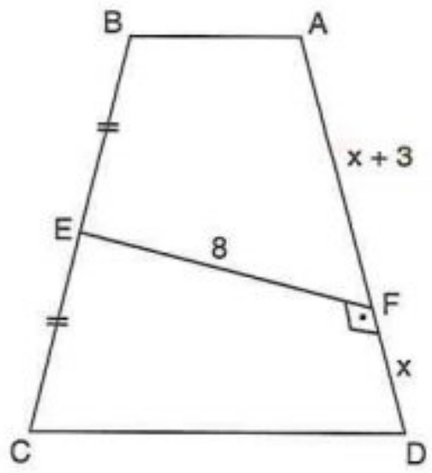
7.



ABCD yamuk *(trapezoid)*

$[AB] \mathbin{/\!/} [CD]$

$[EF] \perp [AD]$

$|BE| = |EC|$

$|AF| = x + 3$ br

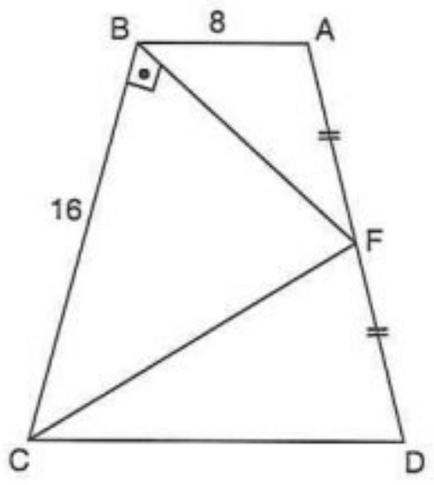
$|FD| = x$ br

$A(ABCD) = 96$ br^2

⇒ **$|FD| = x = ?$**

A) 4 B) $\frac{9}{2}$ C) 8 D) 10 E) $\frac{25}{2}$

8.



ABCD yamuk *(trapezoid)*

$[BF] \perp [BC]$

$|AF| = |FD|$

$|AB| = 8$ br

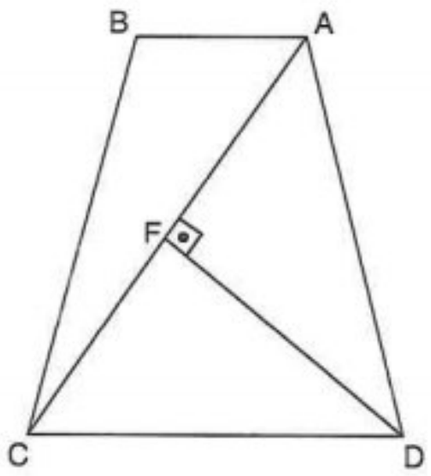
$|BF| = 6$ br

$|BC| = 16$ br

⇒ **$A(ABF) = ?$**

A) $\frac{96}{5}$ B) 12 C) 10 D) $\frac{15}{2}$ E) 7

9.



ABCD yamuk *(trapezoid)*

$[AB] \mathbin{/\!/} [CD]$

$[AC] \perp [FD]$

$|AC| = |CD|$

$|AF| = 9$ br

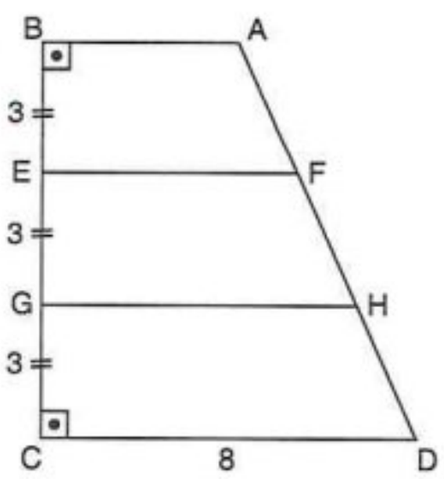
$|FD| = 15$ br

$|AB| = 13$ br

⇒ **$A(ABCD) = ?$**

A) 120 B) 150 C) 180 D) 200 E) 225

10.



ABCD dik yamuk
(right trapezoid)

$[AB] \mathbin{/\!/} [EF] \mathbin{/\!/} [GH] \mathbin{/\!/} [CD]$

$[BC] \perp [CD]$

$|BE| = |EG| = |GC| = 3$ br

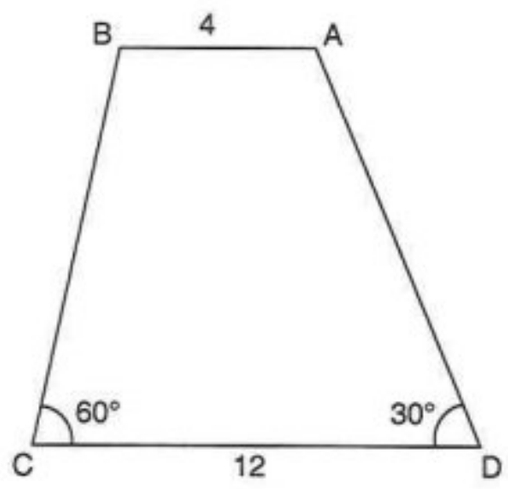
$|EF| = 4$ br

$|CD| = 8$ br

⇒ **$A(ABCD) = ?$**

A) 24 B) 27 C) 45 D) 54 E) 60

11.



ABCD yamuk *(trapezoid)*

$[AB] \mathbin{/\!/} [CD]$

$m(\widehat{BCD}) = 60°$

$m(\widehat{ADC}) = 30°$

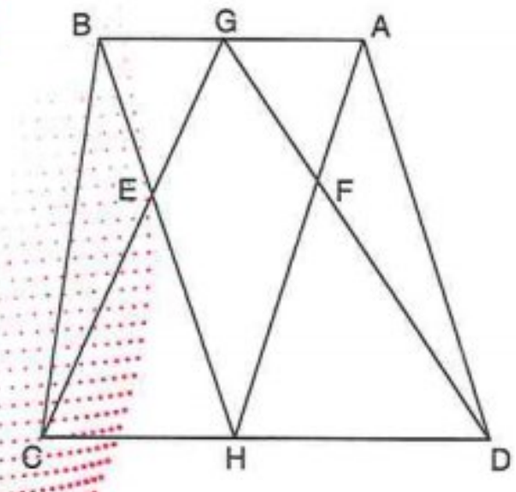
$|AB| = 4$ br

$|CD| = 12$ br

⇒ **$A(ABCD) = ?$**

A) 16 B) $16\sqrt{3}$ C) 20 D) 40 E) $20\sqrt{6}$

12.



ABCD yamuk *(trapezoid)*

$[AB] \mathbin{/\!/} [CD]$

$3|FD| = 4|FG|$

$A(DFH) = 8$ br^2

$A(BEC) = 7$ br^2

⇒ **$A(EGFH) = ?$**

A) 13 B) 12 C) 11 D) 10 E) 9

1. C	2. A	3. D	4. E	5. A	6. E
7. B	8. A	9. E	10. C	11. B	12. A

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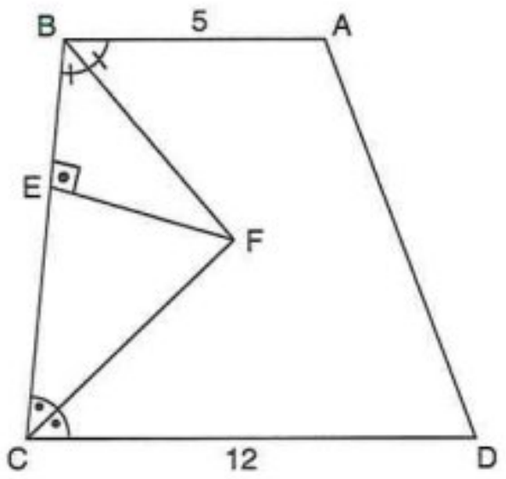
1.

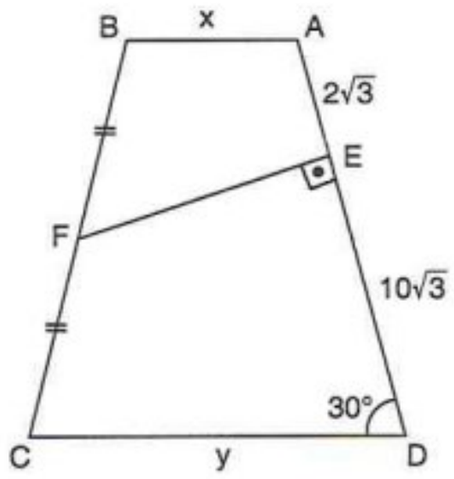


ABCD yamuk (*trapezoid*)
[AB] // [CD]
[EF] ⊥ [BC]
[BF], [CF] açıortay (bisector)
|AB| = 5 br
|EF| = 4 br
|CD| = 12 br

⇒ **A(ABCD) = ?**

A) 68 B) 56 C) 42 D) 36 E) 28

2.

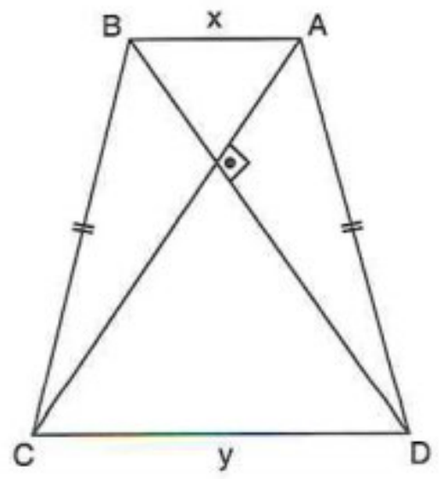


ABCD yamuk (*trapezoid*)
[AB] // [CD]
[FE] ⊥ [AD]
|BF| = |FC|
|AE| = 2√3 br
|ED| = 10√3 br
m(A$\widehat{D}$C) = 30°
|AB| = x br
|CD| = y br

⇒ **x + y = ?**

A) 12 B) 16 C) 20 D) 20√3 E) 24√3

3.

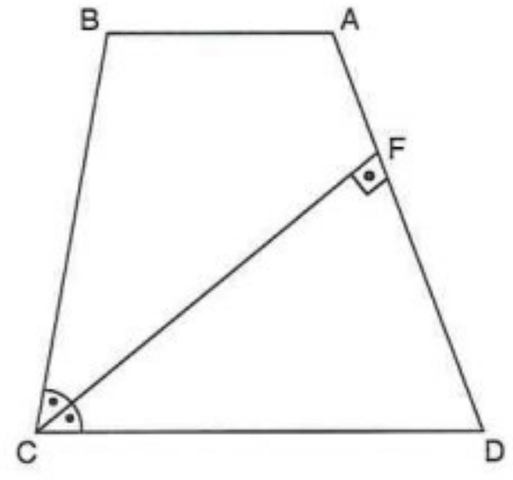


ABCD ikizkenar yamuk (*isosceles trapezoid*)
[AB] // [CD]
[BD] ⊥ [AD]
|AD| = |BC|
|AB| = x br
|CD| = y br
A(ABCD) = 81 br²

⇒ **x + y = ?**

A) 3 B) 3√3 C) 9 D) 18 E) 24

4.

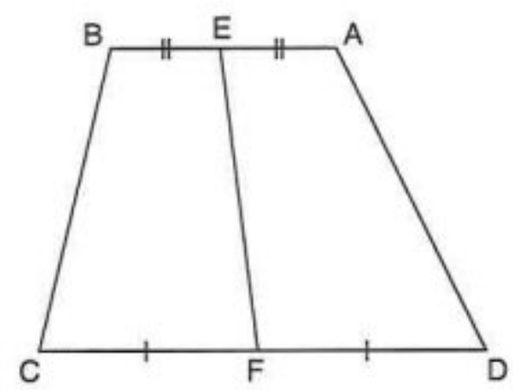


ABCD yamuk (*trapezoid*)
[AB] // [CD]
[CF] ⊥ [AD]
[CF] açıortay (*bisector*)
|BC| = |AD| = 8 br
|CD| = 11 br

⇒ **Ç(AFCD) = ?**

A) 25 B) 28 C) 30 D) 32 E) 44

5.

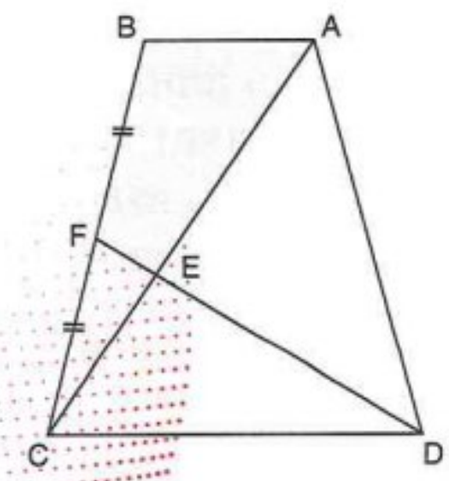


ABCD yamuk (*trapezoid*)
[AB] // [CD]
|BE| = |EA| = 8 br
|CF| = |FD| = 12 br
m(C$\widehat{}$) + m(D$\widehat{}$) = 90°

⇒ **|EF| = x = ?**

A) 4 B) 4√3 C) 6 D) 8 E) 8√2

6.



ABCD yamuk (*trapezoid*)
[AB] // [CD]
|BF| = |FC|
3|FE| = |ED|
A(ECD) = 54 br²

⇒ **A(ABFE) = ?**

A) 60 B) 78 C) 80 D) 102 E) 108

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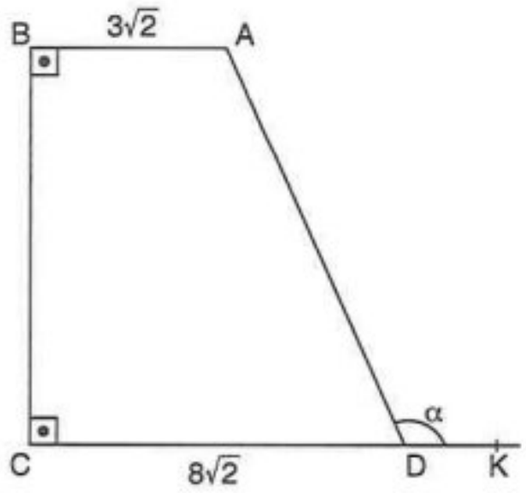
7.



ABCD dik yamuk (*right trapezoid*)

$[BC] \perp [CD]$

$|AB| = 3\sqrt{2}$ br

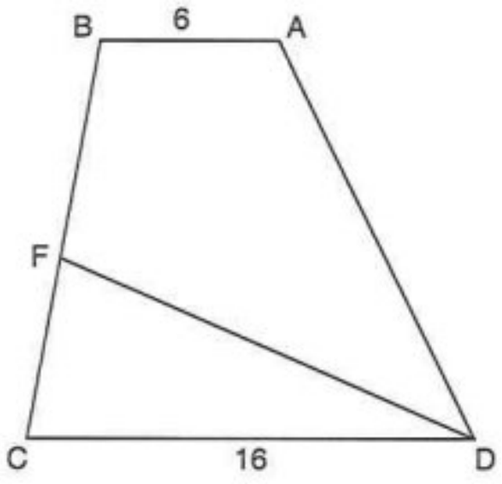
$|CD| = 8\sqrt{2}$ br

$A(ABCD) = 55\ br^2$

$\Rightarrow m(\widehat{ADK}) = \alpha = ?$

A) 120 B) 135 C) 145 D) 150 E) 160

8.



ABCD yamuk (*trapezoid*)

$[AB] \parallel [CD]$

$|AB| = 6$ br

$|CD| = 16$ br

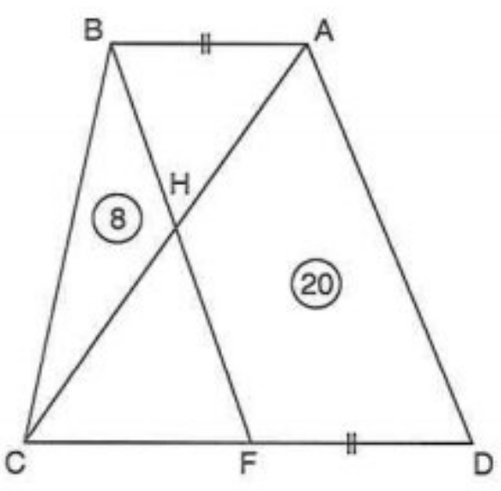
$A(ABFD) = 62\ br^2$

$A(FCD) = 48\ br^2$

$\Rightarrow \dfrac{|BF|}{|FC|} = ?$

A) $\frac{2}{5}$ B) $\frac{2}{3}$ C) $\frac{5}{2}$ D) $\frac{7}{2}$ E) $\frac{11}{3}$

9.



ABCD yamuk (*trapezoid*)

$[AB] \parallel [CD]$

$|AB| = |FD|$

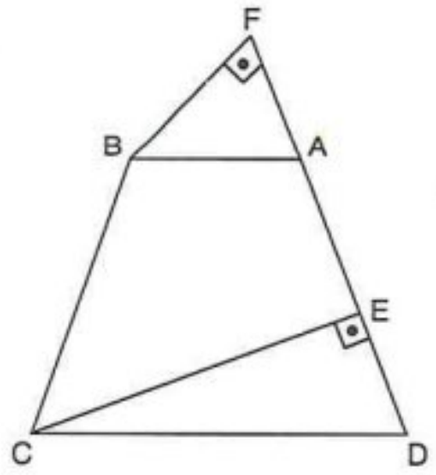
$A(AHFD) = 20\ br^2$

$A(BCH) = 8\ br^2$

$\Rightarrow A(ABCD) = ?$

A) 36 B) 40 C) 48 D) 52 E) 64

10.



ABCD yamuk (*trapezoid*)

$[AB] \parallel [CD]$

$[CE] \perp [FD]$, $[BF] \perp [FD]$

$|BF| = 2$ br

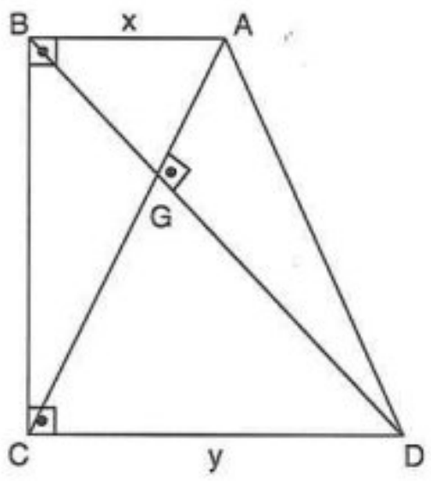
$|AD| = 4\sqrt{2}$ br

$|CE| = 8\sqrt{2}$ br

$\Rightarrow A(ABCD) = ?$

A) 16 B) 14 C) $24 + 4\sqrt{2}$ D) $32 + 4\sqrt{2}$ E) 64

11.



ABCD yamuk (*trapezoid*)

$[AB] \perp [BC]$, $[AC] \perp [BD]$

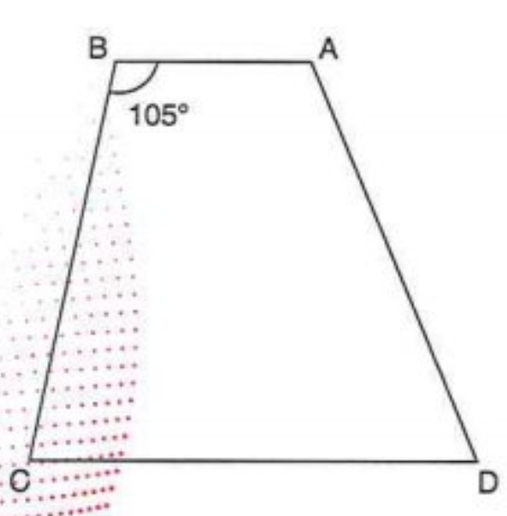
$|CB| = 2\sqrt{3}$ br

$y - x = 4$ br

$\Rightarrow A(ABCD) = ?$

A) $16\sqrt{3}$ B) 8 C) $8\sqrt{3}$ D) 16 E) 32

12.



ABCD yamuk (*trapezoid*)

$[AB] \parallel [CD]$

$m(\widehat{ABC}) = 105°$

$|CD| = |AB| + |AD|$

$\Rightarrow m(\widehat{ADC}) = ?$

A) 60° B) 70° C) 75° D) 45° E) 30°

1. A	2. B	3. D	4. C	5. A	6. B
7. B	8. B	9. C	10. D	11. C	12. E

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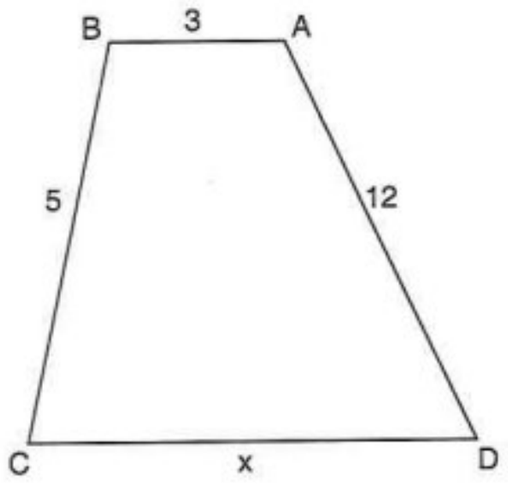
1.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

|AB| = 3 br

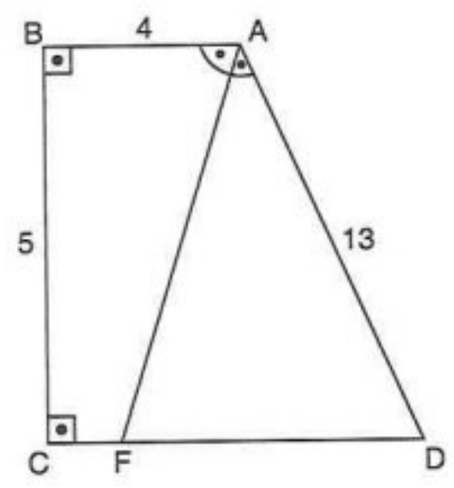
|BC| = 5 br

$m(\widehat{A}) = m(\widehat{C}) + 90°$

⇒ **|CD| = x = ?**

A) 8 B) 12 C) 13 D) 14 E) 16

2.



ABCD dik yamuk
(right trapezoid)

[AF] açıortay (*bisector*)

[BC] ⊥ [CD]

|AB| = 4 br

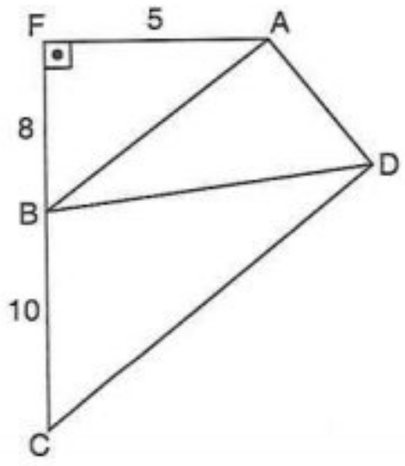
|AD| = 13 br

|BC| = 5 br

⇒ **|CF| = ?**

A) 3 B) 4 C) 5 D) 6 E) $\frac{15}{2}$

3.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

[AF] ⊥ [FC]

|AF| = 5 br

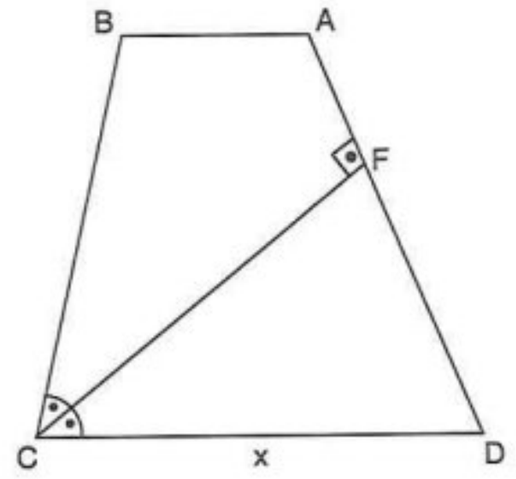
|FB| = 8 br

|BC| = 10 br

⇒ **A(AFBD) = ?**

A) 28 B) 32 C) 45 D) 52 E) 60

4.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

[CF] ⊥ [AD]

[CF] açıortay

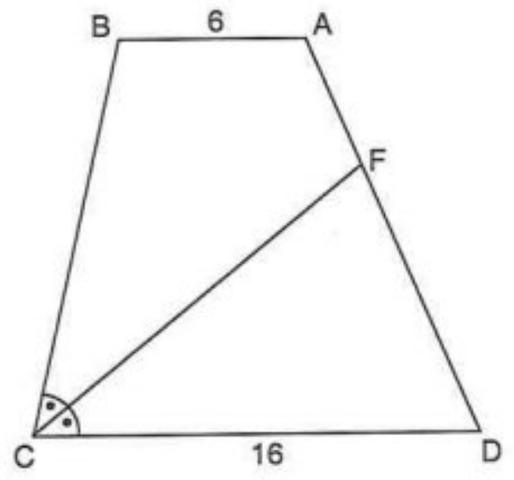
|AB| = 7 br

|BC| = 9 br

⇒ **|CD| = x = ?**

A) 12 B) 15 C) 16 D) 18 E) 20

5.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

[CF] açıortay (bisector)

4|AF| = 3|FD|

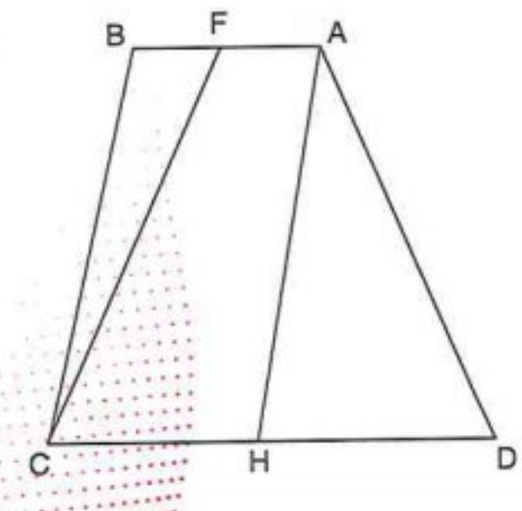
|AB| = 6 br

|CD| = 16 br

⇒ **|BC| = ?**

A) 12 B) 15 C) 16 D) 18 E) 20

6.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

5|BF| = 3|AF|

5|HD| = 3|HC|

A(ABCD) = 96 br²

⇒ **A(BCF) + A(AHD) = ?**

A) 24 B) 30 C) 36 D) 42 E) 48

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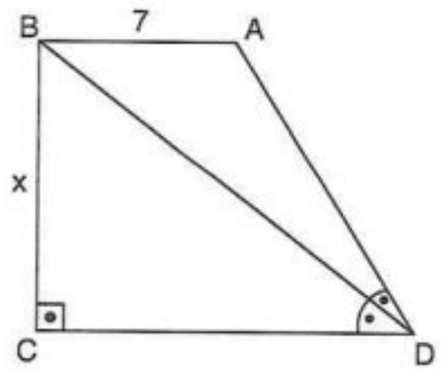
7.



ABCD dik yamuk
(right trapezoid)

[BD] açıortay *(bisector)*

$[BC] \perp [CD]$

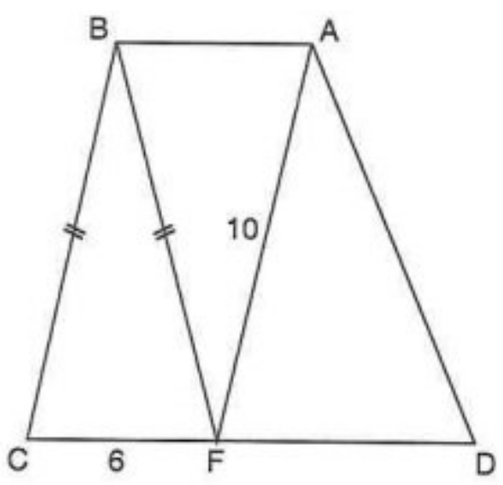
$|AB| = 7$ br

$$\frac{A(ABD)}{A(ABCD)} = \frac{7}{16}$$

$\Rightarrow |BC| = x = ?$

A) 5 B) $3\sqrt{3}$ C) 6 D) $3\sqrt{5}$ E) $4\sqrt{3}$

8.



ABCD yamuk
(trapezoid)

$[AB] \parallel [CD]$

$|BC| = |BF|$

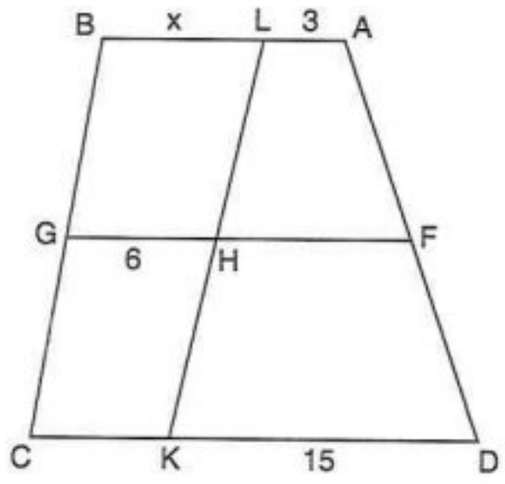
$|AF| = |AD| = |FD| = 10$ br

$|CF| = 6$ br

$\Rightarrow$ **A(ABCD) = ?**

A) 48 B) 56 C) 60 D) $60\sqrt{3}$ E) 72

9.



ABCD yamuk *(trapezoid)*

$[AB] \parallel [GF] \parallel [CD]$

$|AL| = 3$ br

$|GH| = 6$ br

$|KD| = 15$ br

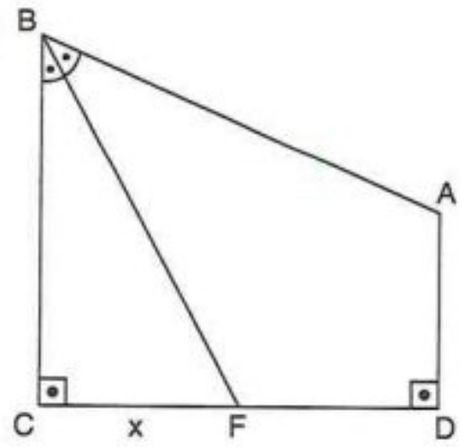
$|BG| = 2|GC|$

$A(ALHF) = 2A(HGCK)$

$\Rightarrow x = ?$

A) 4 B) 3 C) 2 D) $\frac{3}{2}$ E) 1

10.



ABCD dik yamuk
(right trapezoid)

[BF] açıortay *(bisector)*

$[AD] \perp [CD]$

$|AB| = 10$ br

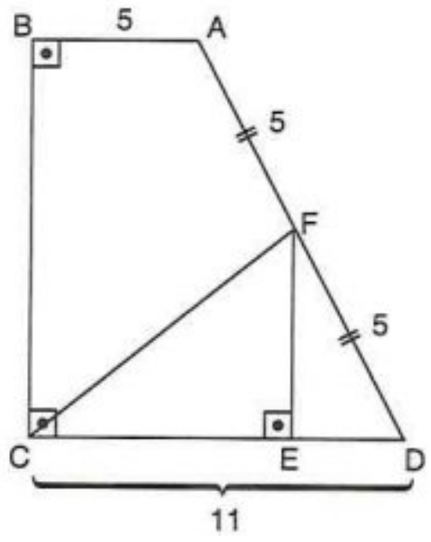
$|AD| = 3$ br

$|BC| = 9$ br

$\Rightarrow |CF| = x = ?$

A) 5 B) 4 C) $\frac{9}{2}$ D) $\frac{3}{2}$ E) 1

11.



ABCD dik yamuk
(right trapezoid)

$[AB] \perp [BC]$, $[EF] \perp [CD]$

$|AB| = 5$ br

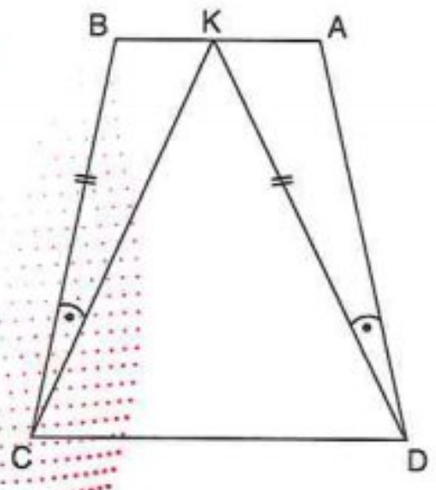
$|AF| = |FD| = 5$ br

$|CD| = 11$ br

$\Rightarrow$ **A(FCD) = ?**

A) 14 B) $\frac{21}{2}$ C) 21 D) 22 E) 24

12.



KBCD ikizkenar yamuk
(isosceles trapezoid)

$[AB] \parallel [CD]$

$|BC| = |KD|$

$|AK| = 3|KB|$

$m(\widehat{BCK}) = m(\widehat{ADK})$

$\Rightarrow \frac{|AD|}{|KC|} = ?$

A) 1 B) 2 C) $\frac{5}{2}$ D) 3 E) 4

1. E	2. A	3. C	4. C	5. D	6. C
7. D	8. D	9. C	10. C	11. D	12. D

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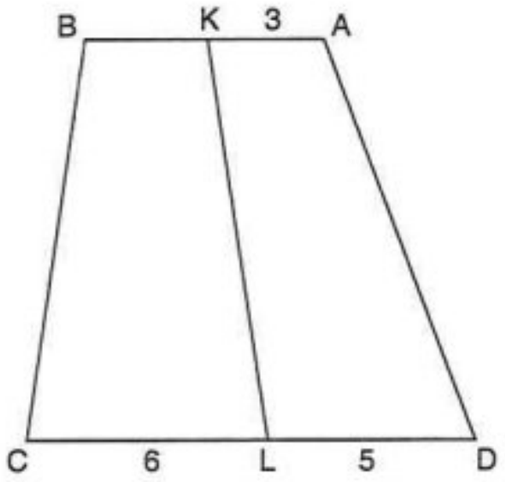
1.



ABCD yamuk *(trapezoid)*

$[AB] \parallel [CD]$

$|AK| = 3$ br

$|LD| = 5$ br

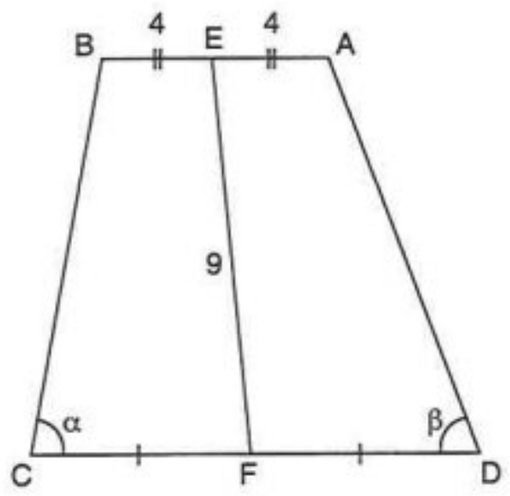
$|CL| = 6$ br

$A(AKLD) = A(KBCL)$

⇒ **$|BK| = ?$**

A) 3 B) $\frac{5}{2}$ C) 2 D) $\frac{3}{2}$ E) 1

2.



ABCD yamuk *(trapezoid)*

$[AB] \parallel [CD]$

$|AE| = |BE| = 4$ br

$|FD| = |CF|$

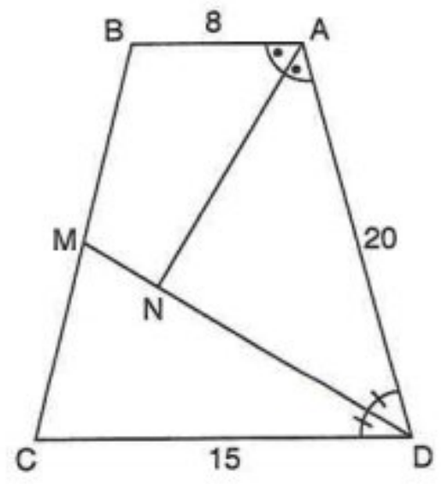
$|EF| = 9$ br

$\alpha + \beta = 90°$

⇒ **$|CD| = ?$**

A) 12 B) 13 C) 18 D) 20 E) 26

3.



ABCD yamuk *(trapezoid)*

$[AB] \parallel [CD]$

$[AN]$, $[DN]$ açıortay *(bisector)*

$|AB| = 8$ br

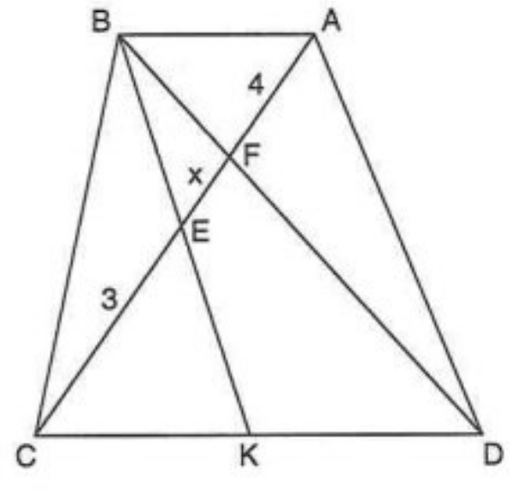
$|AD| = 20$ br

$|CD| = 15$ br

⇒ $\frac{|ND|}{|MN|} = ?$

A) 9 B) 8 C) $\frac{9}{2}$ D) 4 E) 3

4.



ABCD yamuk *(trapezoid)*

$[AB] \parallel [CD]$

$|AF| = 4$ br

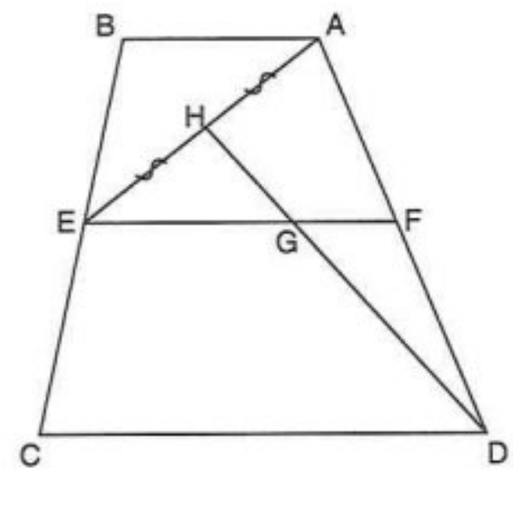
$|EC| = 3$ br

$\frac{|CK|}{|KD|} = \frac{2}{3}$

⇒ **$|CD| = x = ?$**

A) 1 B) 2 C) $\sqrt{7}$ D) 3 E) 3,5

5.



ABCD yamuk *(trapezoid)*

$[AB] \parallel [CD]$

$|BE| = |EC|$

$|AF| = |FD|$

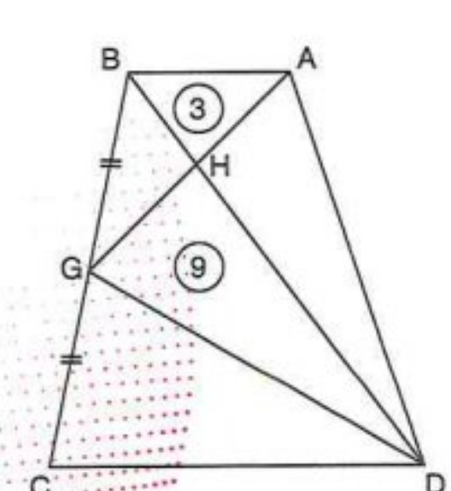
$|AH| = |HE|$

$A(EHG) = 4$ br^2

⇒ **$A(ABCD) = ?$**

A) 48 B) 36 C) 32 D) 24 E) 16

6.



ABCD yamuk *(trapezoid)*

$[AB] \parallel [CD]$

$|BG| = |GC|$

$A(ABH) = 3$ br^2

$A(HGD) = 9$ br^2

⇒ **$A(ABCD) = ?$**

A) 24 B) 36 C) 42 D) 60 E) 64

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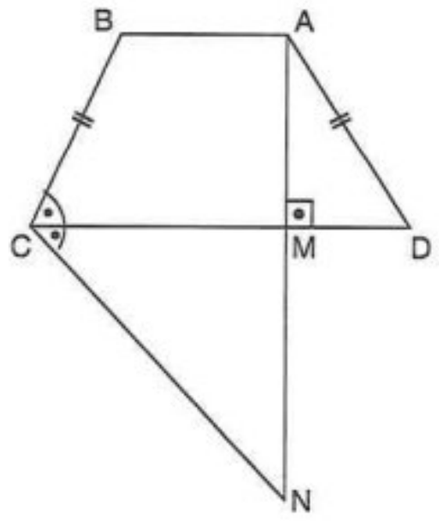
7.



ABCD ikizkenar yamuk *(isosceles trapezoid)*

[AB] // [CD]

|BC| = |AD|

[AN] ⊥ [CD]

[CD] açıortay *(bisector)*

|MN| = 16 br

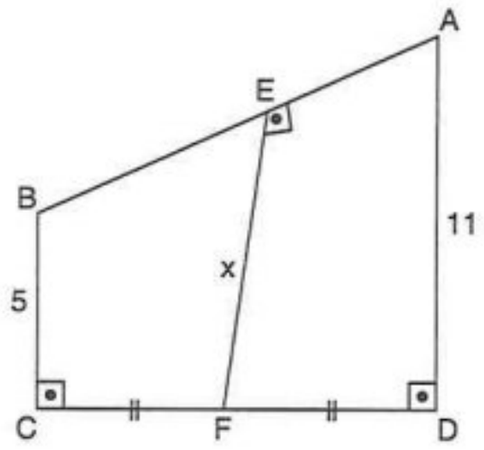
|MA| = 8 br

|AB| = 6 br

⇒ **A(ABCD) = ?**

A) 150 B) 120 C) 105 D) 96 E) 72

8.



ABCD dik yamuk *(right trapezoid)*

[AB] ⊥ [EF]

|CF| = |FD| = 4 br

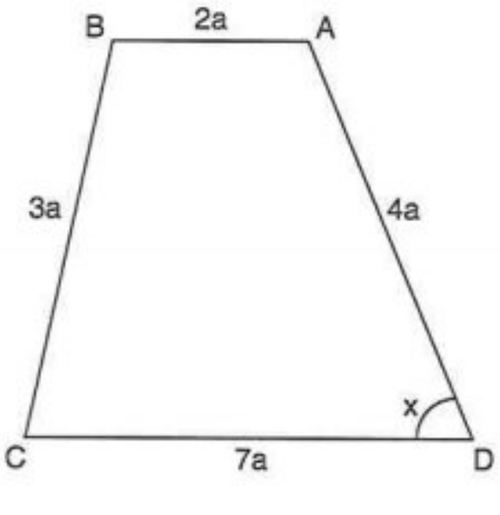
|AD| = 11 br

|BC| = 5 br

⇒ **|EF| = x = ?**

A) 8 B) 7 C) 7,8 D) 6,4 E) 6

9.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

|AB| = 2a br

|BC| = 3a br

|AD| = 4a br

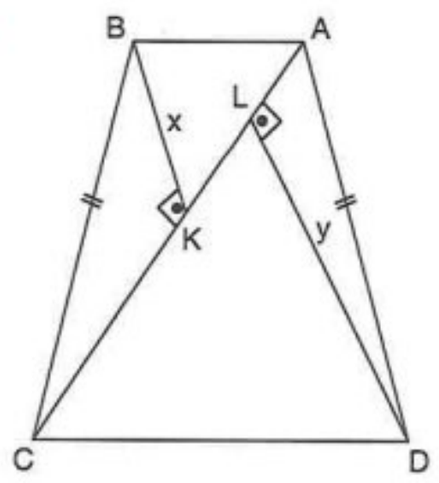
|CD| = 7a br

$m(A\widehat{D}C) = x°$

⇒ **$m(C\widehat{B}A) = ?$**

A) 45 + x B) 60 + x C) 90 + x D) 100 + x E) 120 – x

10.



ABCD ikizkenar yamuk *(isosceles trapezoid)*

[AB] // [CD]

[BK] ⊥ [AC], [LD] ⊥ [AC]

|BC| = |AD|

|KL| = 5 br

|AC| = 13 br

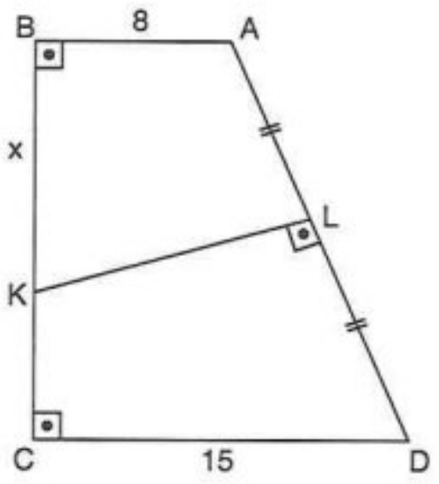
|BK| = x br

|LD| = y br

⇒ **x + y = ?**

A) 16 B) 14 C) 13 D) 12 E) 11

11.



ABCD dik yamuk *(right trapezoid)*

[KL] ⊥ [AD]

[DC] ⊥ [BC]

|AL| = |LD|

|AB| = 8 br

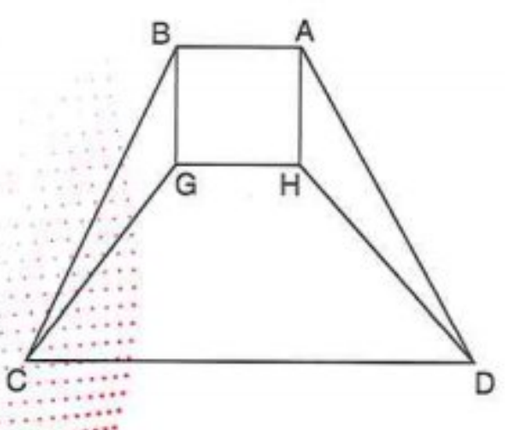
|CD| = 15 br

|BC| = 23 br

⇒ **|BK| = x = ?**

A) 12 B) 15 C) 16 D) 18 E) 20

12.



ABCD yamuk *(trapezoid)*

ABGH kare (*square*)

[AB] // [CD]

|GH| = 8 br

|CD| = 20 br

⇒ **A(BCG) + A(AHD) = ?**

A) 20 B) $15\sqrt{3}$ C) 36 D) 40 E) 48

1. C	2. E	3. A	4. B	5. A	6. B
7. D	8. D	9. C	10. D	11. B	12. E

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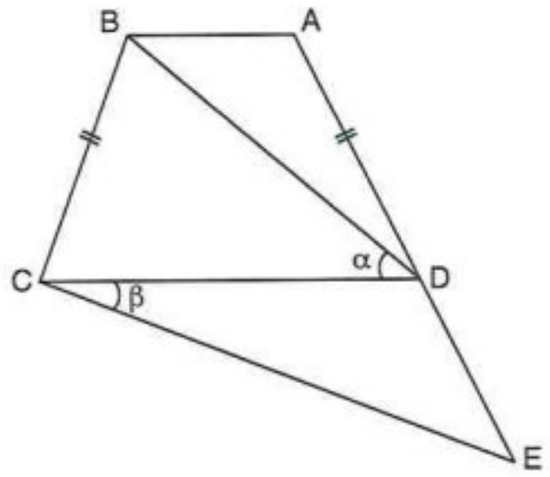
1.

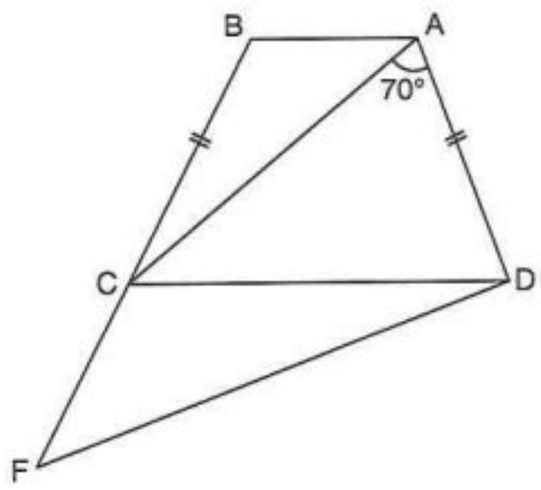


ABCD ikizkenar yamuk
(isosceles trapezoid)
$[AB] \parallel [CD]$
$|BC| = |AD| = 8$ br
$|BC| = |DE|$
$m(B\widehat{D}C) = \alpha$
$m(D\widehat{C}E) = \beta$
$\alpha + \beta = 90°$

⇒ **$|CD| = ?$**

A) 8 B) 10 C) 11 D) 12 E) 13

2.

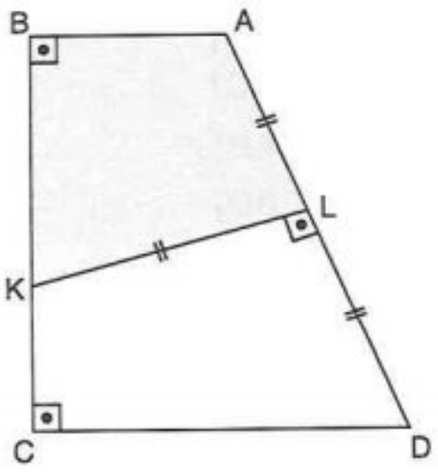


ABCD ikizkenar yamuk
(isosceles trapezoid)
$[AB] \parallel [CD]$
$|AD| = |BC|$
$|AC| = |BF|$
$m(D\widehat{A}C) = 70°$

⇒ **$m(B\widehat{F}D) = ?$**

A) 25 B) 30 C) 35 D) 40 E) 55

3.

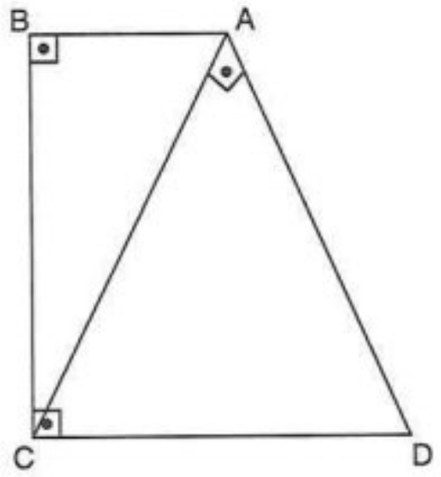


ABCD dik yamuk
(right trapezoid)
$[BC] \perp [CD]$
$[KL] \perp [AD]$
$|AL| = |LD| = |LK|$
$|BC| = 8\sqrt{3}$ br

⇒ **A(ABKL) = ?**

A) 96 B) 80 C) 48 D) $24\sqrt{3}$ E) 24

4.

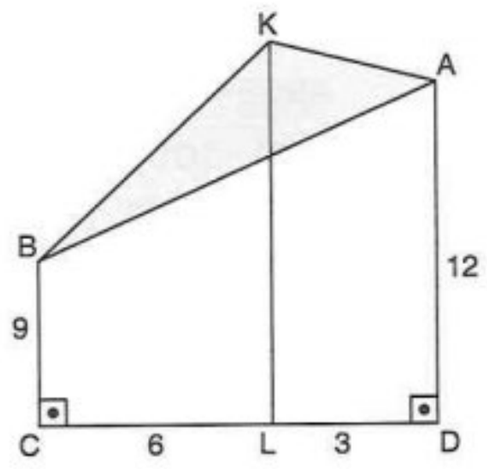


ABCD dik yamuk
(right trapezoid)
$[BC] \perp [CD]$
$[AC] \perp [AD]$
$\frac{|BC|}{|AB|} = \frac{4}{3}$

⇒ $\frac{|AC|}{|AD|} = ?$

A) $\frac{3}{4}$ B) 1 C) $\frac{4}{3}$ D) 2 E) $2\sqrt{2}$

5.

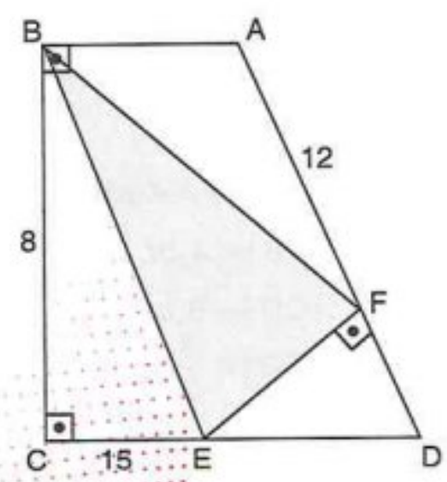


ABCD yamuk *(trapezoid)*
$[BC] \perp [CD]$, $[CD] \perp [AD]$
$[BC] \parallel [KL] \parallel [AD]$
$|BC| = 9$ br
$|AD| = 12$ br
$|CL| = 6$ br
$|LD| = 3$ br
$|KL| = 14$ br

⇒ **A(KBA) = ?**

A) 48 B) 36 C) 24 D) $\frac{27}{2}$ E) 12

6.



ABCD dik yamuk
(right trapezoid)
$[BE] \parallel [AD]$
$[EF] \perp [AD]$
$[BC] \perp [CD]$
$|AF| = 12$ br
$|BC| = 8$ br
$|CE| = 15$ br

⇒ **A(BFE) = ?**

A) 32 B) $\frac{68}{3}$ C) 21 D) $\frac{43}{3}$ E) 15

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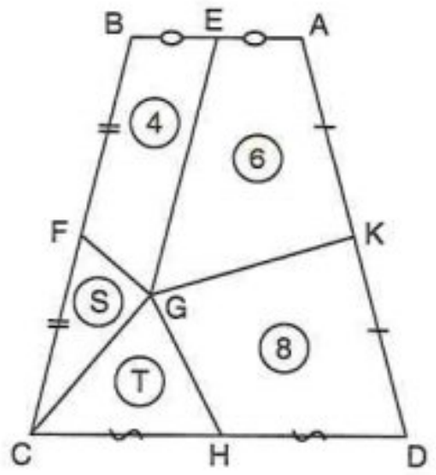
7.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

A(EBFG) = 4 br²

A(AEGK) = 6 br²

A(KGHD) = 8 br²

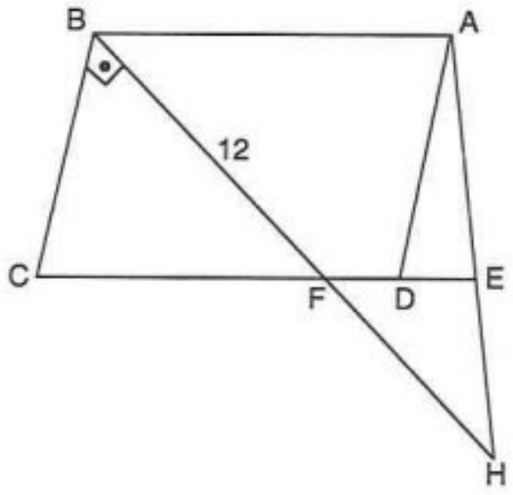
A(GFC) = S br²

A(GCH) = T br²

⇒ **T + S = ?**

A) 3,5 B) 4 C) 6 D) 7,5 E) 8

8.



ABCE yamuk *(trapezoid)*

[AB] // [CE]

[BC] // [AD]

|CF| = 3|FD|

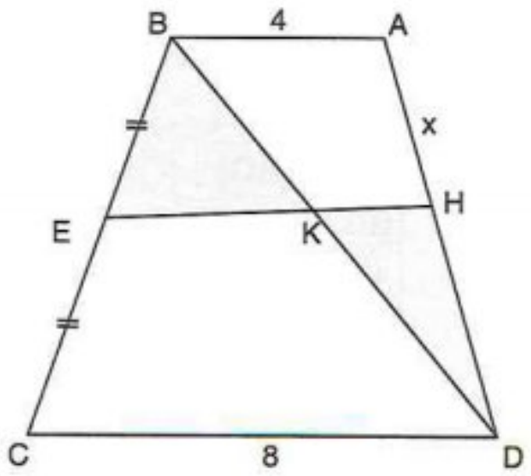
|CD| = |AH|

|BF| = 12 br

⇒ **|FH| = ?**

A) 20 B) 18 C) 16 D) 14 E) 12

9.



ABCD yamuk *(trapezoid)*

|BE| = |EC|

A(BEK) = A(KHD)

|AB| = 4 br

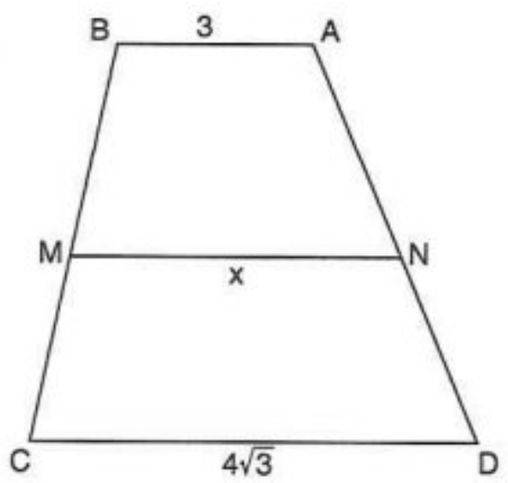
|CD| = 8 br

$|HD| = \frac{3}{2}$ br

⇒ **x = ?**

A) 4 B) $\frac{7}{2}$ C) 3 D) $\frac{5}{2}$ E) $\frac{3}{4}$

10.



ABCD ikizkenar yamuk *(isosceles trapezoid)*

[AB] // [MN] // [CD]

|AB| = 3 br

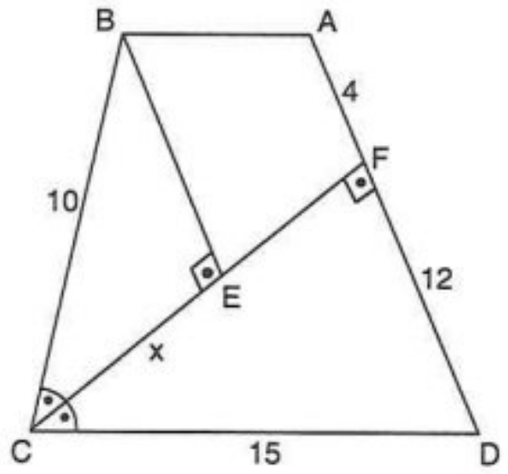
$|CD| = 4\sqrt{3}$ br

$\frac{A(ABMN)}{A(NMCD)} = \frac{1}{2}$

⇒ **x = ?**

A) $3\sqrt{3}$ B) $\sqrt{22}$ C) $3\sqrt{5}$ D) $3\sqrt{6}$ E) $3\sqrt{7}$

11.



ABCD yamuk*(trapezoid)*

[AB] // [CD]

[BE] ⊥ [CF], [AD] ⊥ [CF]

[CF] açıortay *(bisector)*

|AF| = 4 br

|DF| = 12 br

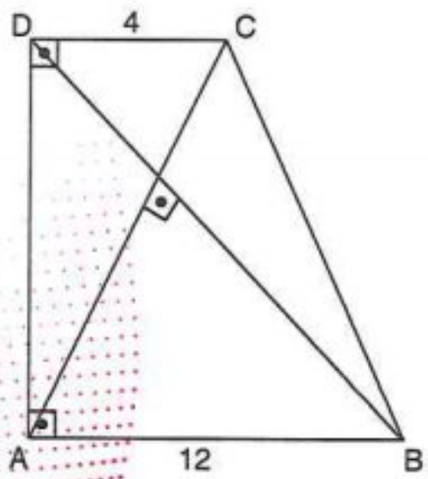
|BC| = 10 br

|CD| = 15 br

⇒ **|CE| = x = ?**

A) 4 B) $\frac{9}{2}$ C) 5 D) 6 E) 8

12.



ABCD yamuk *(trapezoid)*

[AB] // [CD]

[AD] ⊥ [DC]

[AD] ⊥ [AB]

[AC] ⊥ [BD]

|DC| = 4 br

|AB| = 12 br

⇒ **|AD| = ?**

A) $4\sqrt{3}$ B) 8 C) $4\sqrt{6}$ D) $8\sqrt{3}$ E) 16

1. A	2. E	3. C	4. A	5. D	6. B
7. C	8. A	9. E	10. B	11. D	12. A

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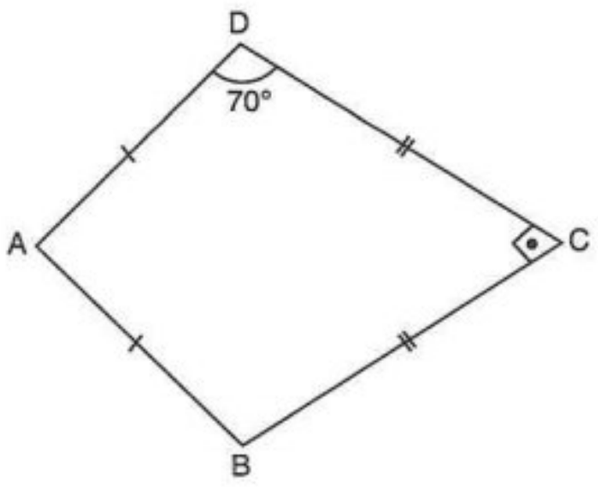
1.



ABCD deltoit
(*deltoid*)

$|AB| = |AD|$

$|BC| = |CD|$

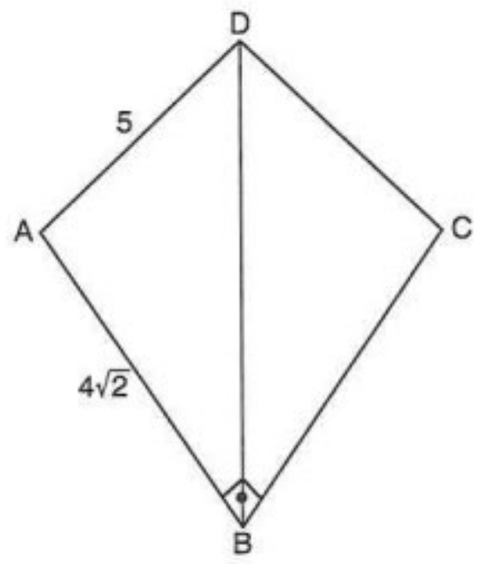
$[BC] \perp [DC]$

$m(\widehat{ADC}) = 70°$

$\Rightarrow$ **$m(\widehat{DAB}) = ?$**

A) 110° B) 130° C) 140° D) 150° E) 170°

2.



ABCD deltoit
(*deltoid*)

$|AD| = |DC|$

$[AB] \perp [BC]$

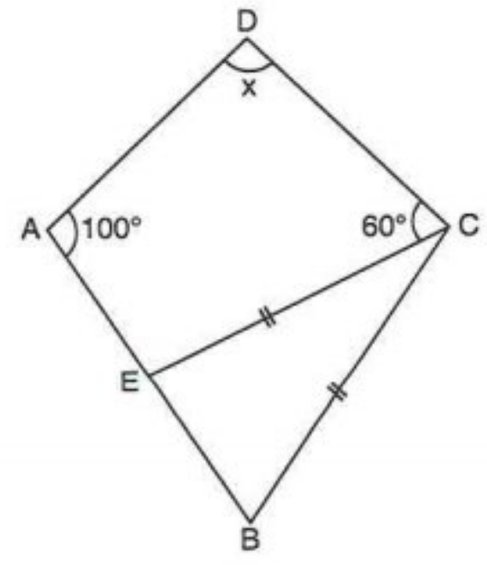
$|AD| = 5$ br

$|AB| = 4\sqrt{2}$ br

$\Rightarrow$ **$|BD| = x = ?$**

A) 3 B) 5 C) 7 D) 9 E) 11

3.



ABCD deltoit
(*deltoid*)

$|AD| = |DC|$

$|EC| = |CB|$

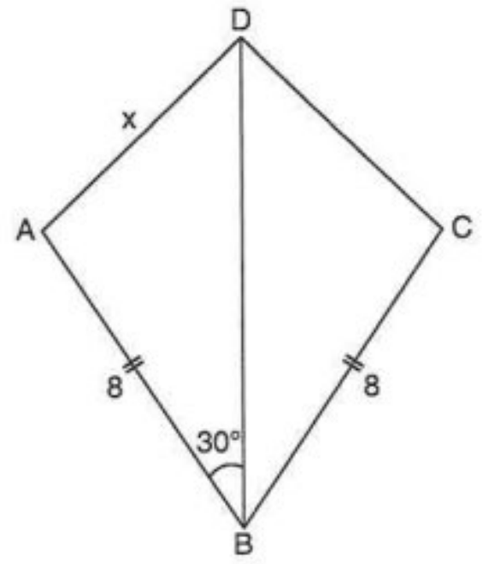
$m(\widehat{DAB}) = 100°$

$m(\widehat{DCE}) = 60°$

$\Rightarrow$ **$m(\widehat{ADC}) = x = ?$**

A) 100° B) 90° C) 80° D) 60° E) 50°

4.



ABCD deltoit
(*deltoid*)

$m(\widehat{ABD}) = 30°$

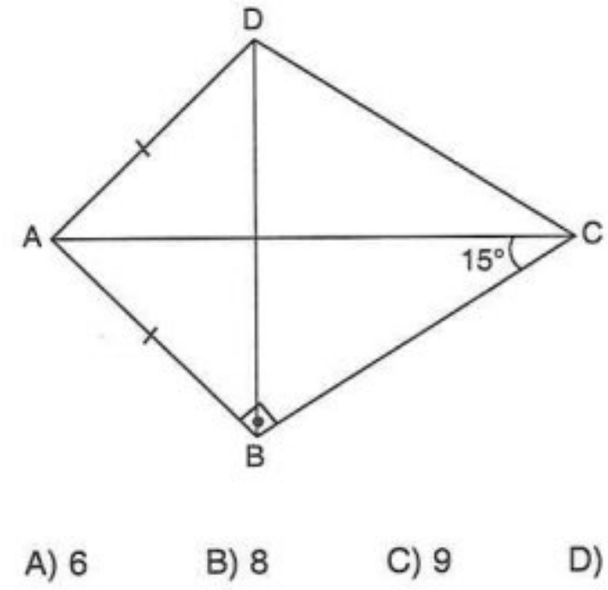
$|AB| = |BC| = 8$ br

$|DB| = 7\sqrt{3}$ br

$\Rightarrow$ **$|AD| = x = ?$**

A) $\sqrt{41}$ B) $\sqrt{43}$ C) $3\sqrt{5}$ D) $\sqrt{47}$ E) $\sqrt{53}$

5.



ABCD deltoit
(*deltoid*)

$[AB] \perp [BC]$

$m(\widehat{ACB}) = 15°$

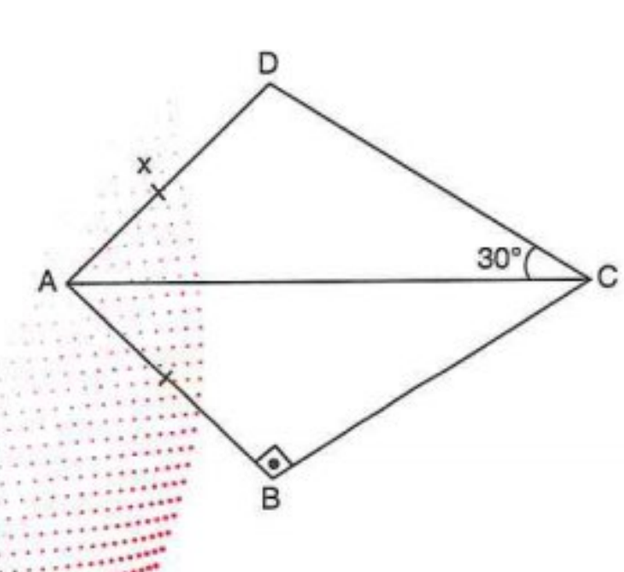
$|AD| = |AB|$

$|AC| = 24$ br

$\Rightarrow$ **$|BD| = ?$**

A) 6 B) 8 C) 9 D) 12 E) 13

6.



ABCD deltoit
(*deltoid*)

$[AB] \perp [BC]$

$m(\widehat{DCA}) = 30°$

$|AD| = |AB|$

$|BC| = 6\sqrt{3}$ br

$\Rightarrow$ **$|AD| = x = ?$**

A) $3\sqrt{3}$ B) 6 C) $6\sqrt{3}$ D) 12 E) $12\sqrt{3}$

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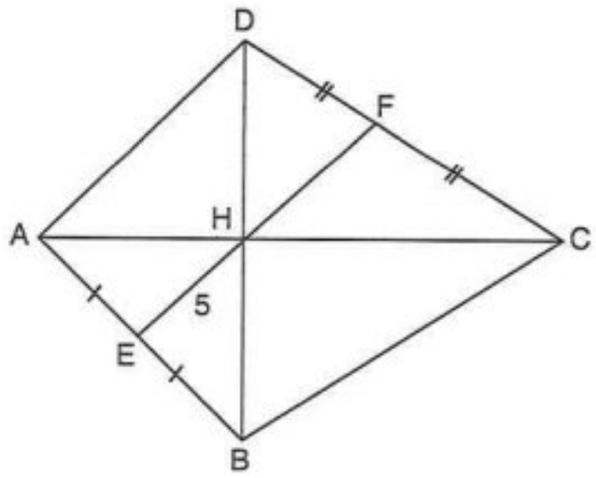
7.



ABCD deltoit (*deltoid*)

$|AD| = |AB|$

$|AE| = |EB|$

$|DF| = |FC|$

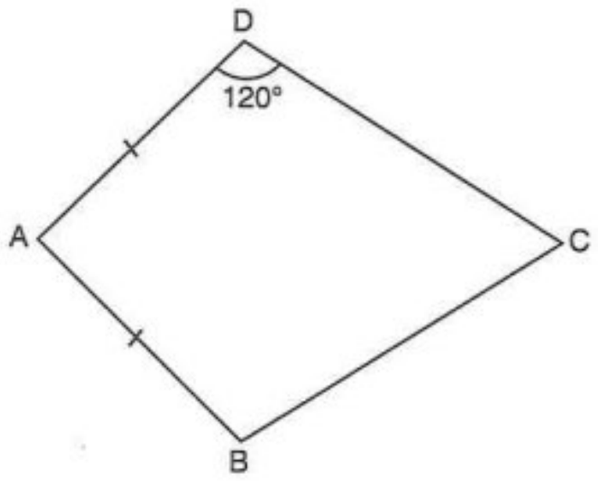
$|EH| = 5$ br

$|HF| = 7$ br

⇒ **Ç(ABCD) = ?**

A) 12 B) 18 C) 24 D) 48 E) 56

8.



ABCD deltoit (*deltoid*)

$m(\widehat{ADC}) = 120°$

$|AD| = |AB| = 4$ br

$|DC| = 6$ br

⇒ **A(ABCD) = ?**

A) 12 B) $12\sqrt{3}$ C) 16 D) $16\sqrt{3}$ E) $24\sqrt{3}$

9.

ABCD deltoit (*deltoid*)

$|AB| = |AD| = 10$ br

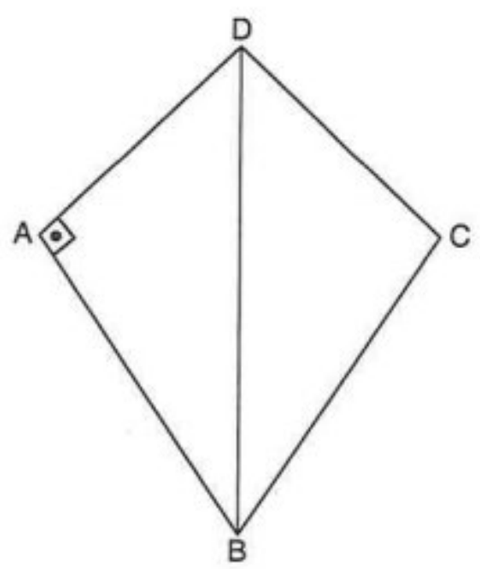
$|BC| = |CD| = 17$ br

$|BD| = 16$ br

⇒ **A(ABCD) = ?**

A) 144 B) 156 C) 168 D) 174 E) 192

10.



ABCD deltoit (*deltoid*)

$[AD] \perp [AB]$

$m(\widehat{ADC}) = 150°$

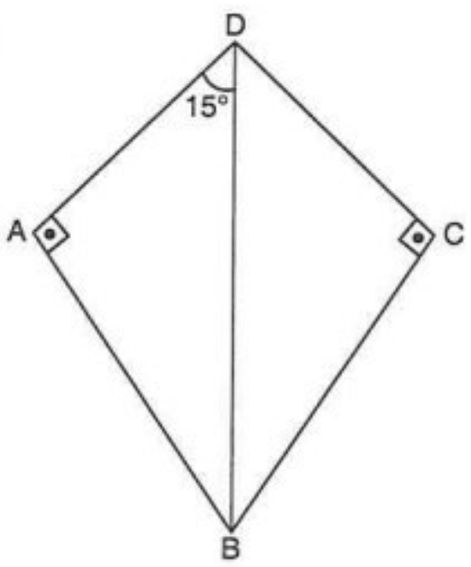
$|AD| = |DC|$

$|BD| = 16$ br

⇒ **A(ABCD) = ?**

A) 24 B) 48 C) 64 D) 108 E) 128

11.



ABCD deltoit (*deltoid*)

$[DC] \perp [BC]$

$m(\widehat{ADB}) = 15°$

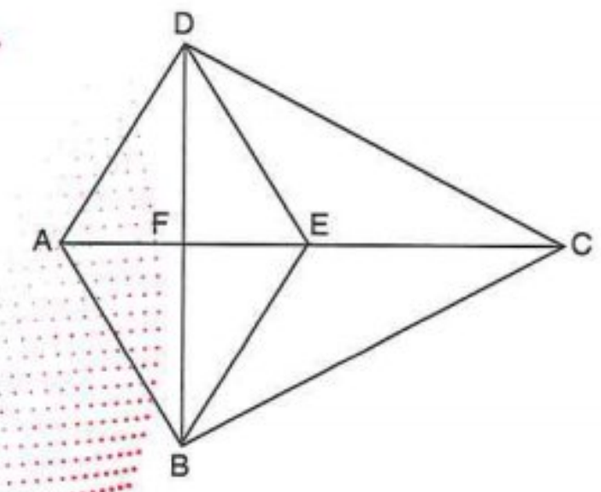
$|AD| = |DC|$

$|BD| = 8$ br

⇒ **A(ABCD) = ?**

A) 12 B) 16 C) 32 D) 64 E) 78

12.



ABCD deltoit (*deltoid*)

ABED eşkenar dörtgen (*rhombus*)

$2|AF| = |EC|$

$A(ADE) = 8$ br^2

⇒ **A(ABCD) = ?**

A) 12 B) 16 C) 32 D) 60 E) 64

1. B	2. C	3. B	4. B	5. D	6. B
7. D	8. B	9. C	10. C	11. B	12. C

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ÇEMBERDE AÇI

CIRCLE THEOREMS - ANGLES

KONU KAVRAMA TESTİ
Thread Grip Test

ZİHİN HARİTASI
Mind Map

6
TEST
Tests

120
SORU
Questions

CANER eğitim kurumları YÖS

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ÇEMBERDE AÇI
CIRCLE THEOREMS – ANGLES

CANER eğitim kurumları

1.

α = Çevre açı β = Merkez açı

$m(\widehat{AC}) = 2 \cdot m(A\widehat{B}C)$ $m(\widehat{AB}) = m(A\widehat{O}B)$

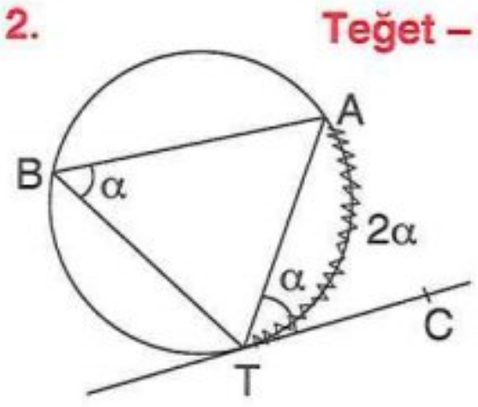
5.

$a + c = 180°$ $b + d = 180°$

9.

$[AB] // [CD] \Rightarrow m(\widehat{AC}) = m(\widehat{BD})$

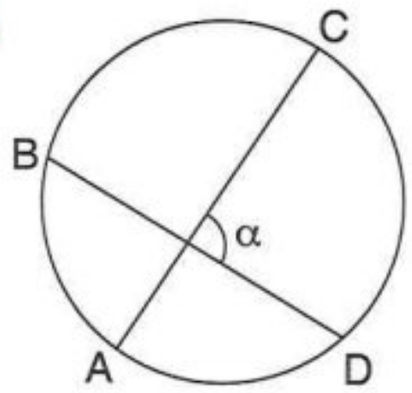
2. **Teğet – Kiriş Açı**



$m(\widehat{AT}) = 2 \cdot m(A\widehat{T}C)$

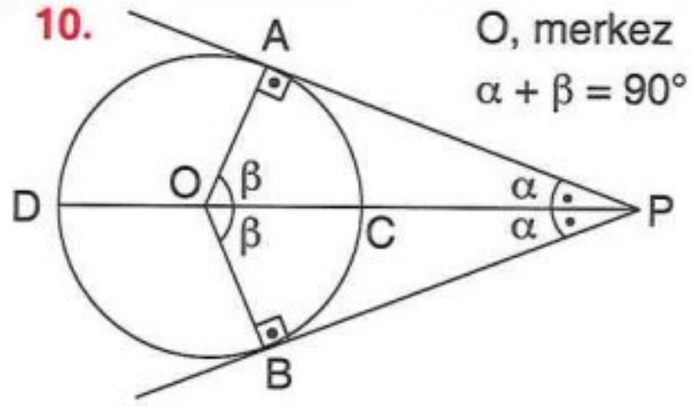
$m(A\widehat{B}T) = m(A\widehat{T}C)$

6.



$$\alpha = \frac{m(\widehat{AB}) + m(\widehat{CD})}{2}$$

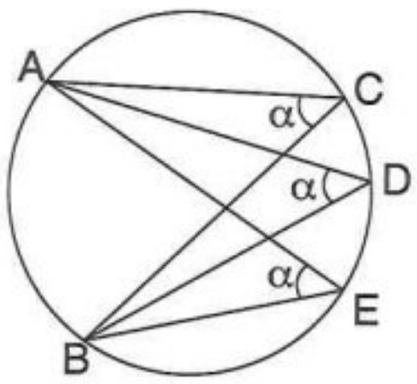
10.



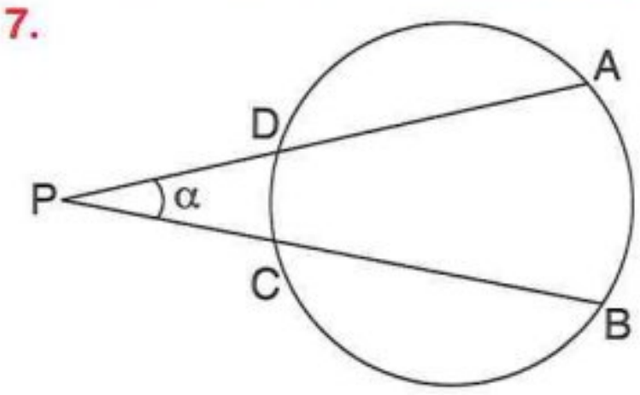
$m(A\widehat{O}B) + m(A\widehat{P}B) = 180°$

$\alpha + m(\widehat{AC}) = 90°$

3.

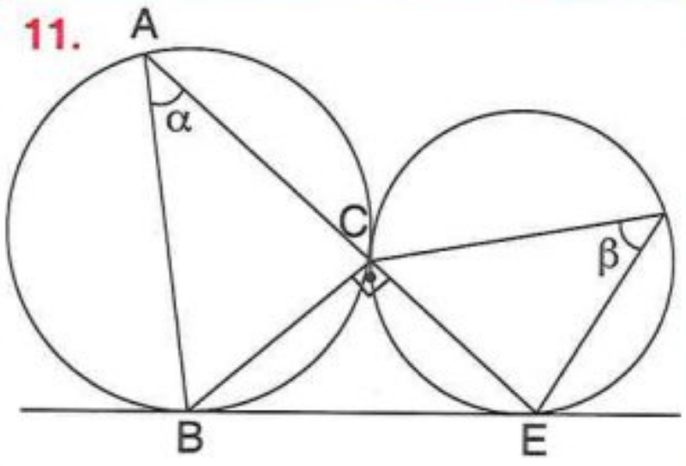


7.



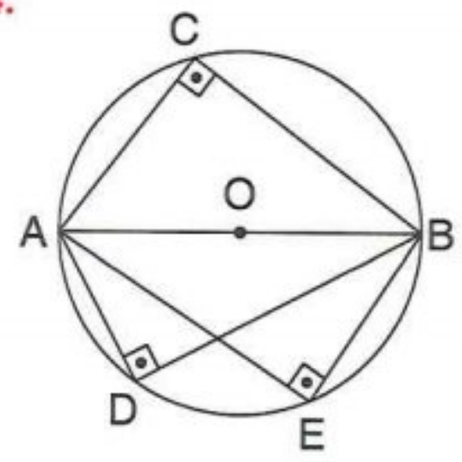
$$\alpha = \frac{m(\widehat{AB}) - m(\widehat{CD})}{2}$$

11.

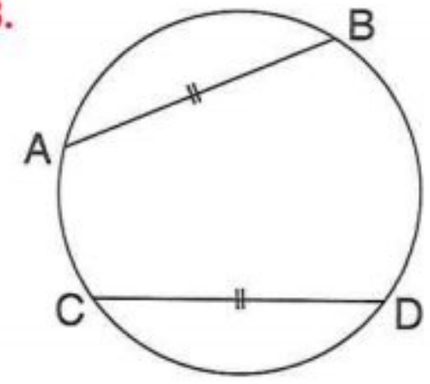


$[CB] \perp [CE]$ $\alpha + \beta = 90°$

4.

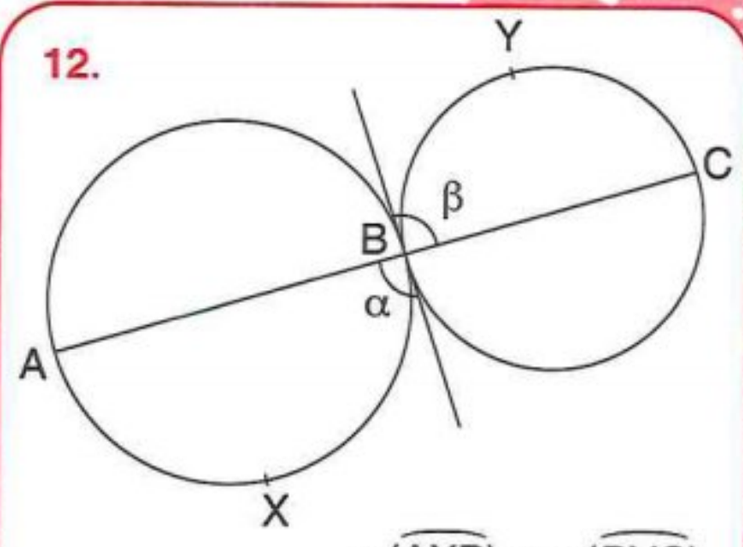


8.



$|AB| = |CD| \Rightarrow m(\widehat{AB}) = m(\widehat{CD})$

12.



$m(\widehat{AXB}) = m(\widehat{BYC})$

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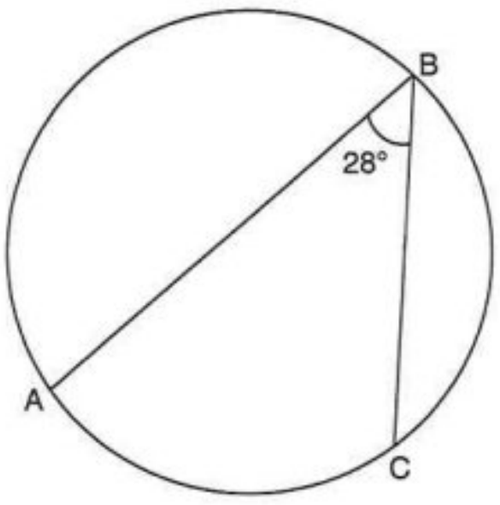
1.

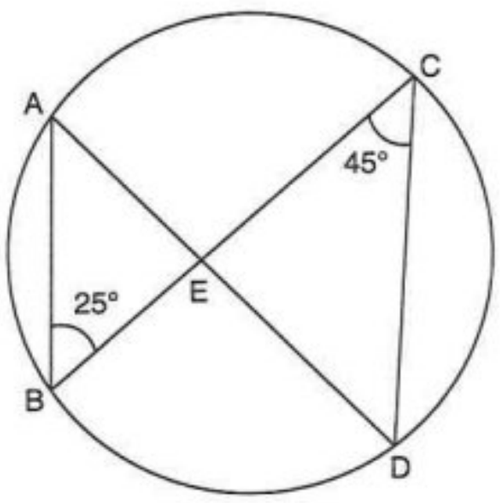


$m(A\widehat{B}C) = 28°$

$\Rightarrow m(\widehat{AC}) = ?$

A) 14° B) 28° C) 42° D) 56° E) 58°

2.



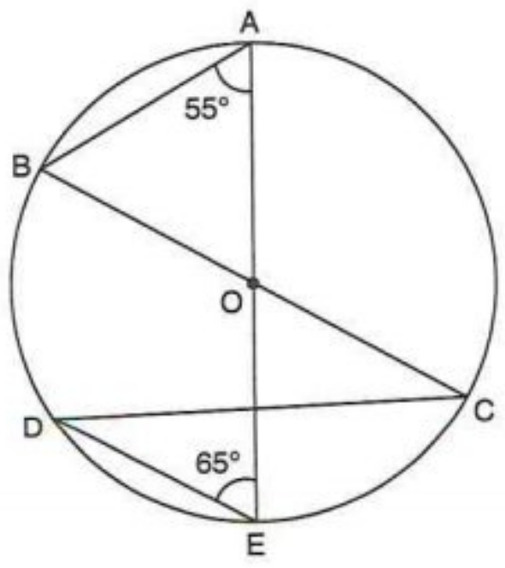
$m(A\widehat{B}C) = 25°$

$m(B\widehat{C}D) = 45°$

$\Rightarrow m(C\widehat{E}D) = ?$

A) 70° B) 80° C) 90° D) 100° E) 110°

3.



O, merkez *(center)*

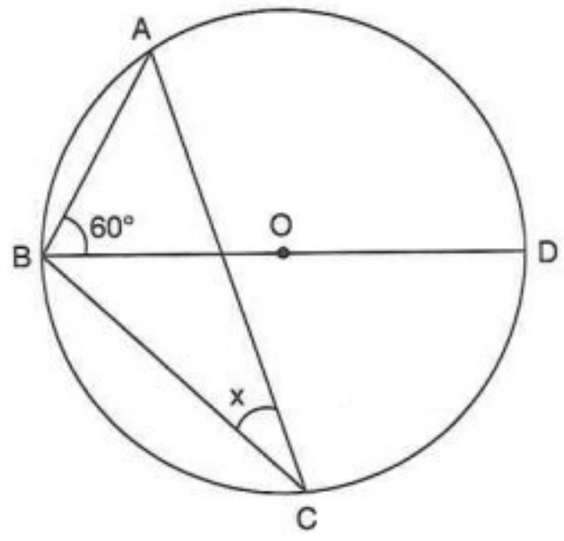
$m(B\widehat{A}E) = 55°$

$m(D\widehat{E}A) = 65°$

$\Rightarrow m(B\widehat{C}D) = ?$

A) 30° B) 40° C) 50° D) 60° E) 70°

4.



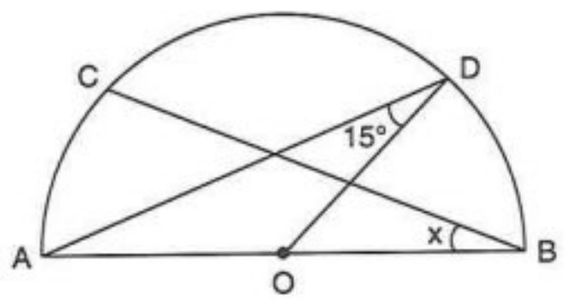
O, merkez *(center)*

$m(A\widehat{B}D) = 60°$

$\Rightarrow m(B\widehat{C}A) = x = ?$

A) 15° B) 30° C) 40° D) 45° E) 60°

5.



O, merkez *(center)*

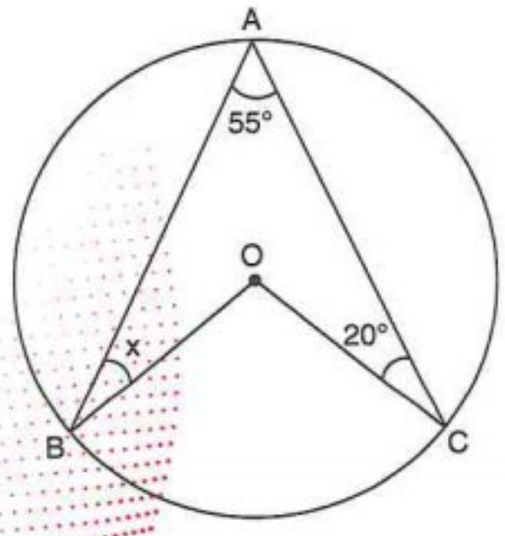
$m(A\widehat{D}O) = 15°$

$m(\widehat{CD}) = 50°$

$\Rightarrow m(A\widehat{B}C) = x = ?$

A) 25° B) 30° C) 40° D) 45° E) 50°

6.



O, merkez *(center)*

$m(B\widehat{A}C) = 55°$

$m(O\widehat{C}A) = 20°$

$\Rightarrow m(A\widehat{B}O) = x = ?$

A) 15° B) 20° C) 25° D) 30° E) 35°

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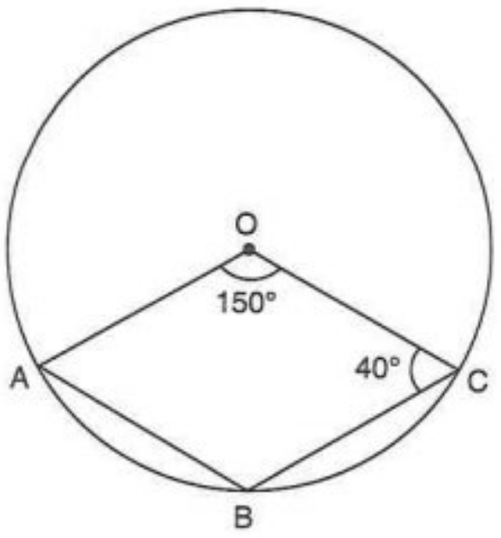
7.



O, merkez *(center)*

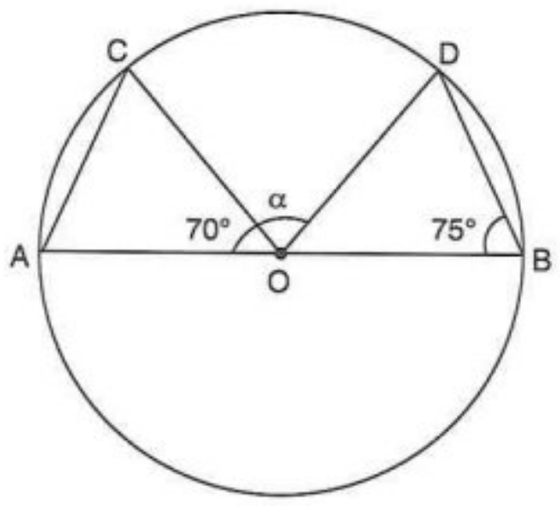
$m(A\widehat{O}C) = 150°$

$m(O\widehat{C}B) = 40°$

⇒ $m(O\widehat{A}B) = ?$

A) 55° B) 60° C) 65° D) 70° E) 75°

8.



O, merkez *(center)*

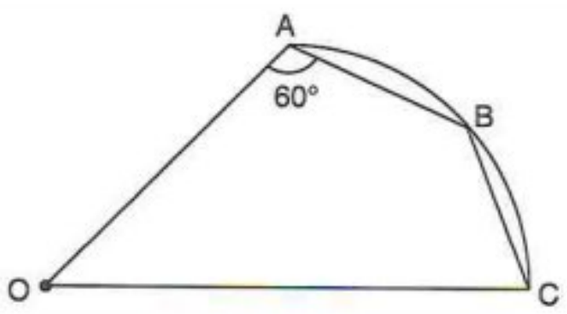
$m(A\widehat{O}C) = 70°$

$m(A\widehat{B}D) = 75°$

⇒ $m(C\widehat{O}D) = \alpha = ?$

A) 70° B) 75° C) 80° D) 85° E) 90°

9.



O, merkez*(center)*

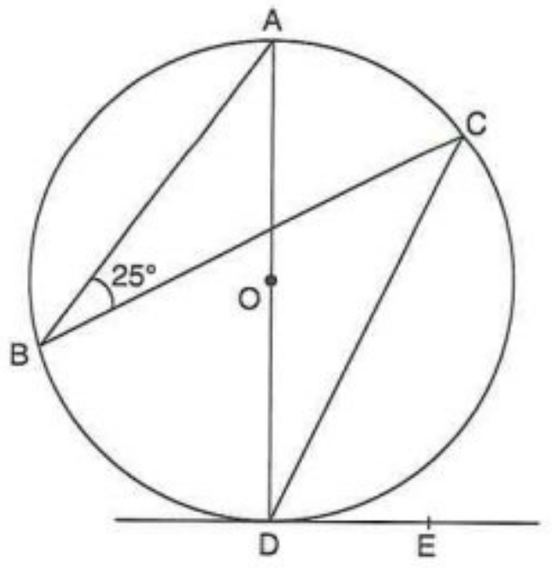
$m(A\widehat{O}C) = 70°$

$m(O\widehat{A}B) = 60°$

⇒ $m(O\widehat{C}B) = ?$

A) 80° B) 85° C) 90° D) 95° E) 100°

10.



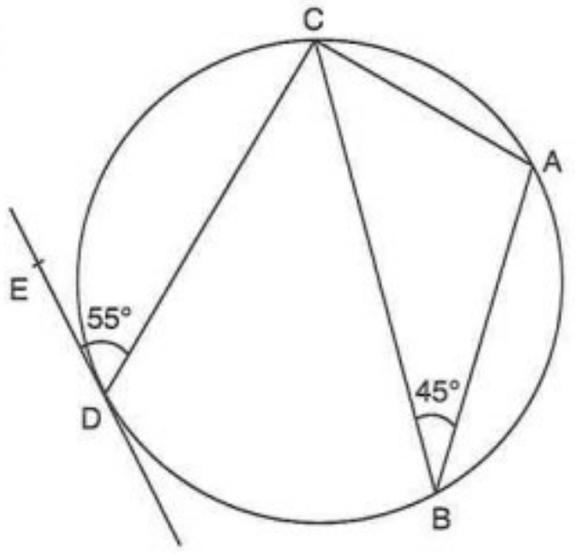
O, merkez *(center)*

$m(A\widehat{B}C) = 25°$

⇒ $m(C\widehat{D}E) = ?$

A) 50° B) 55° C) 60° D) 65° E) 70°

11.



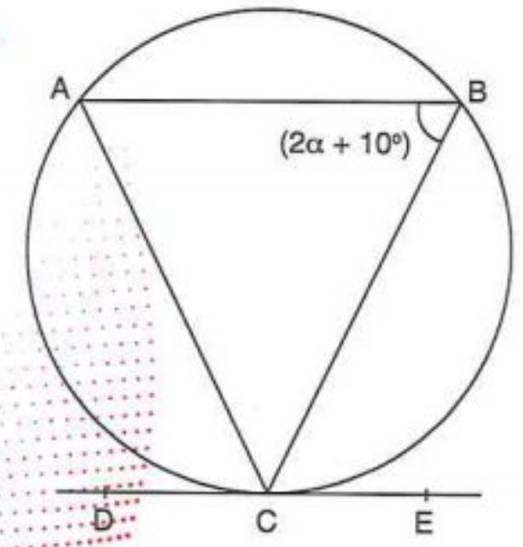
$m(E\widehat{D}C) = 55°$

$m(C\widehat{B}A) = 45°$

⇒ $m(D\widehat{C}A) = ?$

A) 80° B) 85° C) 90° D) 95° E) 100°

12.



$|AB| = |BC|$

$m(A\widehat{B}C) = (2\alpha + 10°)$

$m(A\widehat{C}D) = (3\alpha - 20°)$

⇒ $m(B\widehat{C}E) = ?$

A) 30° B) 40° C) 55° D) 70° E) 75°

1. D	2. E	3. A	4. B	5. E	6. E
7. C	8. C	9. D	10. D	11. A	12. C

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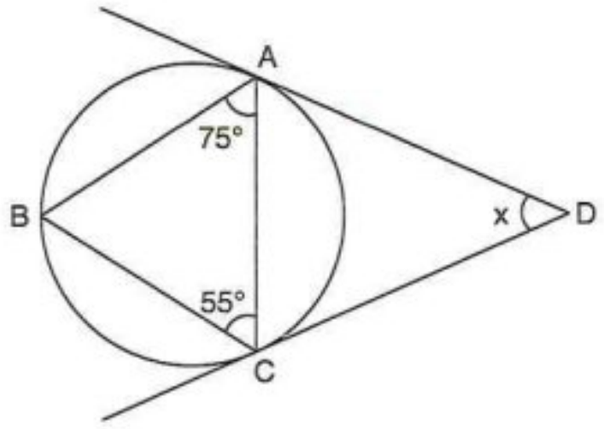
13.

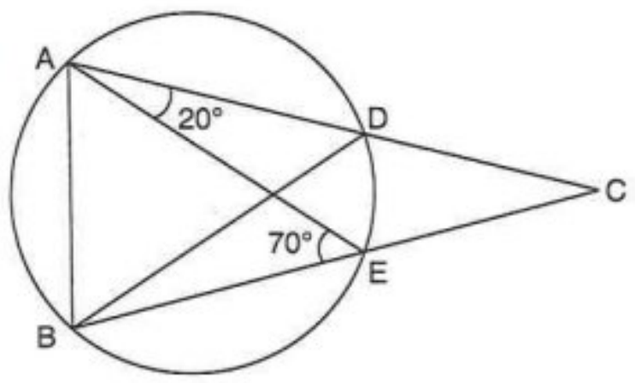


$m(B\widehat{A}C) = 75°$
$m(B\widehat{C}A) = 55°$

$\Rightarrow$ **$m(A\widehat{D}C) = x = ?$**

A) 50° B) 60° C) 70° D) 80° E) 90°

14.

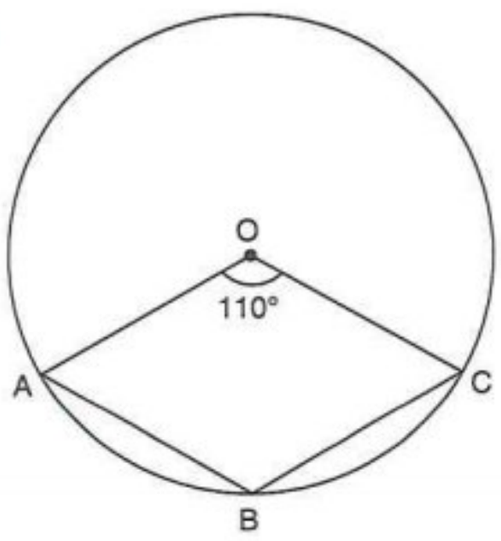


$m(E\widehat{A}C) = 20°$
$m(A\widehat{E}B) = 70°$

$\Rightarrow$ **$m(A\widehat{C}B) = ?$**

A) 20° B) 25° C) 30° D) 50° E) 60°

15.



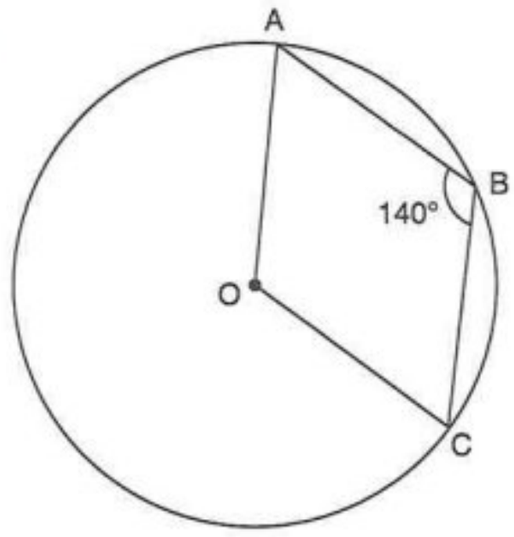
O, merkez *(center)*

$m(A\widehat{O}C) = 110°$

$\Rightarrow$ **$m(A\widehat{B}C) = ?$**

A) 110° B) 115° C) 120° D) 125° E) 130°

16.



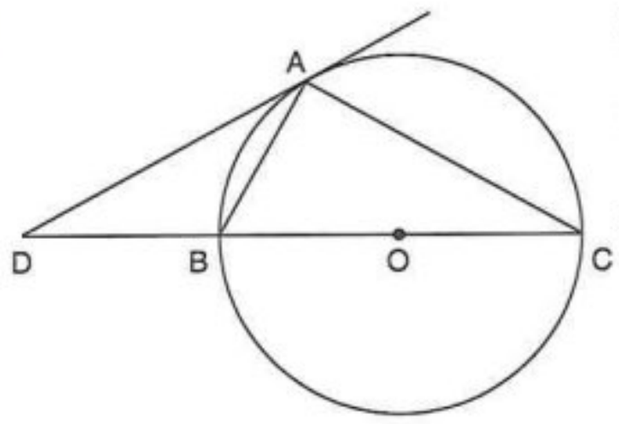
O, merkez *(center)*

$m(A\widehat{B}C) = 140°$

$\Rightarrow$ **$m(A\widehat{O}C) = ?$**

A) 55° B) 60° C) 70° D) 75° E) 80°

17.



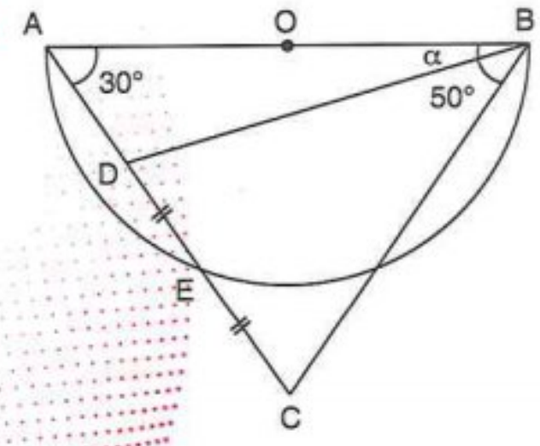
O, merkez *(center)*

$m(A\widehat{D}C) = 3 \cdot m(A\widehat{C}D)$

$\Rightarrow$ **$m(D\widehat{A}B) = ?$**

A) 10° B) 15° C) 18° D) 24° E) 36°

18.



O, merkez *(center)*

$|DE| = |EC|$
$m(D\widehat{B}C) = 50°$
$m(C\widehat{A}B) = 30°$

$\Rightarrow$ **$m(A\widehat{B}D) = \alpha = ?$**

A) 25° B) 30° C) 35° D) 40° E) 45°

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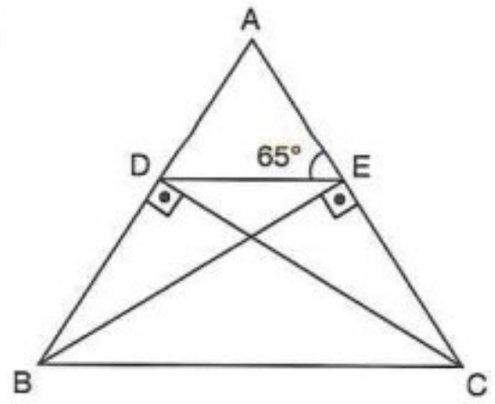
19.

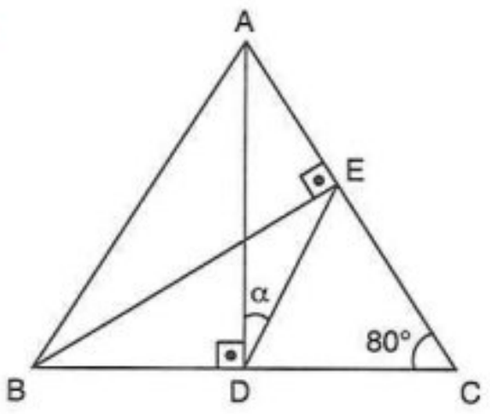


$[BE] \perp [AC]$
$[CD] \perp [AB]$
$m(\widehat{AED}) = 65°$

$\Rightarrow m(\widehat{DCB}) = ?$

A) 25° B) 35° C) 45° D) 55° E) 65°

20.

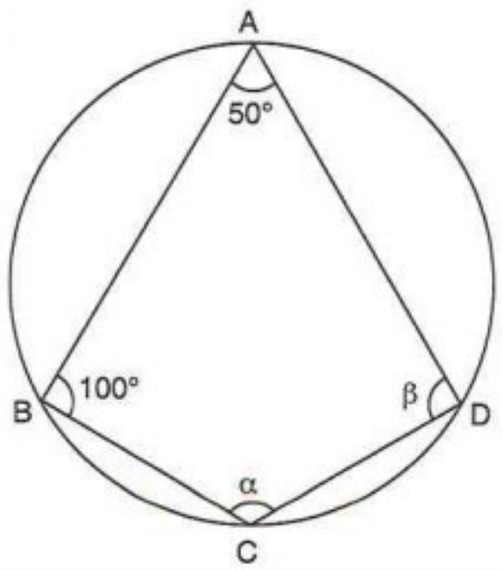


$[DE] /\!/ [AB]$
$[AD] \perp [BC]$
$[BE] \perp [AC]$
$m(\widehat{ACB}) = 80°$

$\Rightarrow m(\widehat{ADE}) = \alpha = ?$

A) 30° B) 40° C) 45° D) 50° E) 60°

21.

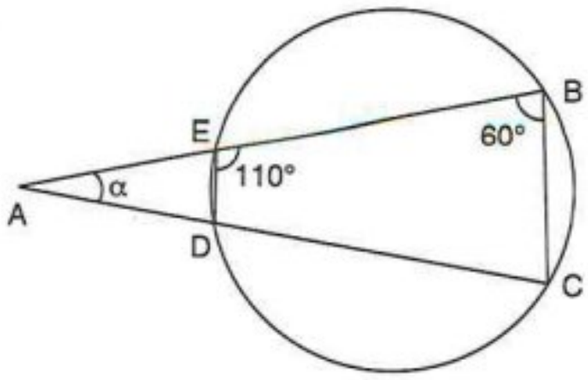


$m(\widehat{ABC}) = 100°$
$m(\widehat{BAD}) = 50°$
$m(\widehat{BCD}) = \alpha$
$m(\widehat{CDA}) = \beta$

$\Rightarrow \alpha + \beta = ?$

A) 150° B) 160° C) 180° D) 190° E) 210°

22.

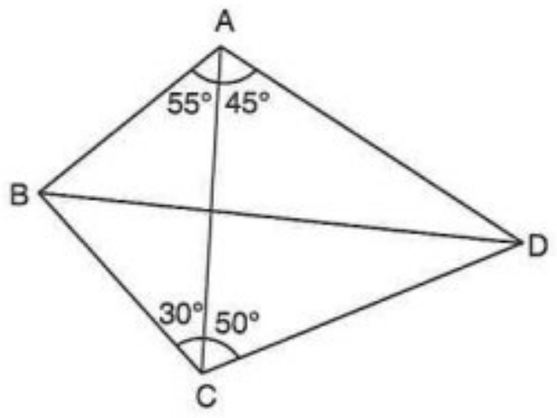


$m(\widehat{ABC}) = 60°$
$m(\widehat{BED}) = 110°$

$\Rightarrow m(\widehat{BAC}) = \alpha = ?$

A) 50° B) 60° C) 70° D) 80° E) 90°

23.



$m(\widehat{BCA}) = 30°$
$m(\widehat{CAD}) = 45°$
$m(\widehat{ACD}) = 50°$
$m(\widehat{BAC}) = 55°$

$\Rightarrow m(\widehat{CBD}) = ?$

A) 35° B) 40° C) 45° D) 50° E) 55°

24.

$m(\overset{\frown}{AD}) = 60°$
$m(\overset{\frown}{BC}) = 100°$

$\Rightarrow m(\widehat{DEC}) = \alpha = ?$

A) 70° B) 80° C) 90° D) 100° E) 110°

13. D	14. D	15. D	16. E	17.C	18. C
19. A	20. B	21. E	22. A	23. C	24. D

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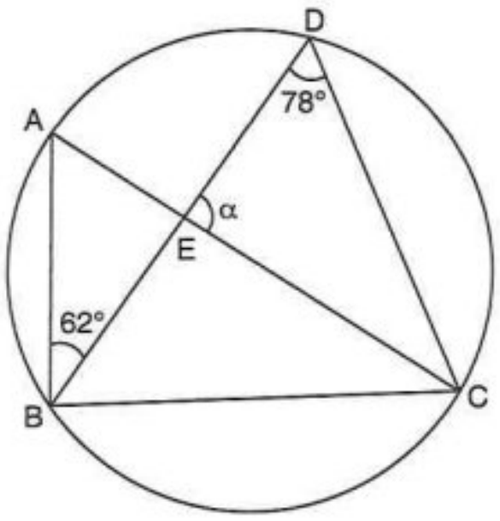
25.



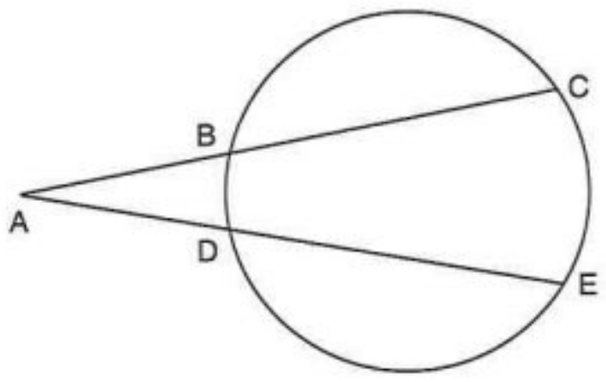
$m(\widehat{ABD}) = 62°$

$m(\widehat{BDC}) = 78°$

$\Rightarrow m(\widehat{DEC}) = ?$

A) 30° B) 38° C) 40° D) 42° E) 48°

26.



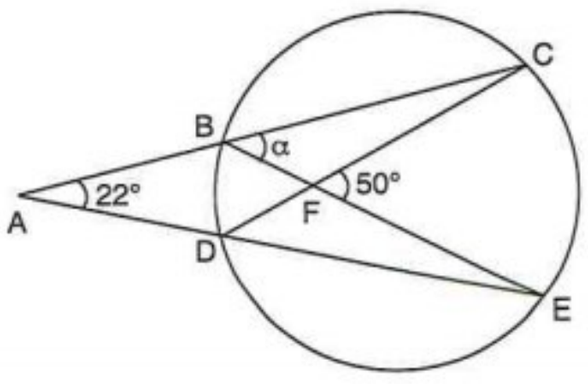
$m(\overset{\frown}{CE}) = 80°$

$m(\overset{\frown}{BD}) = 10°$

$\Rightarrow m(\widehat{CAE}) = ?$

A) 30° B) 35° C) 40° D) 45° E) 50°

27.



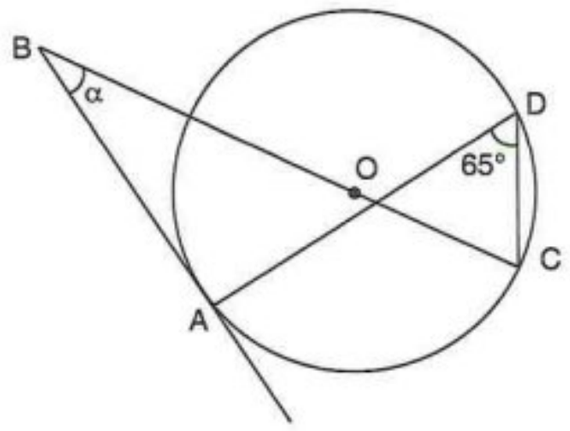
$m(\widehat{CFE}) = 50°$

$m(\widehat{CAE}) = 22°$

$\Rightarrow m(\widehat{CBE}) = \alpha = ?$

A) 14° B) 18° C) 22° D) 28° E) 36°

28.



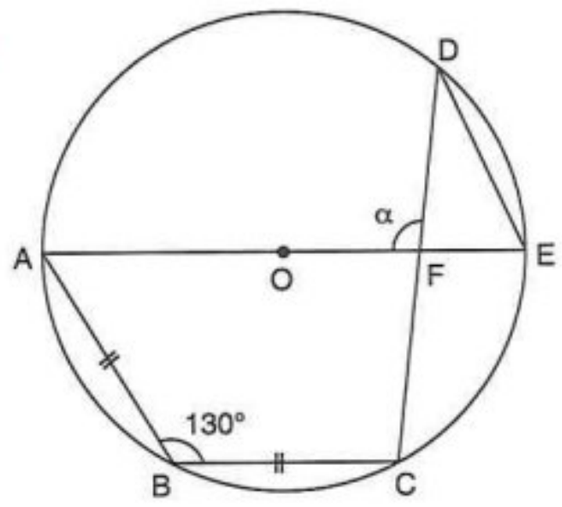
O, merkez *(center)*

$m(\widehat{ADC}) = 65°$

$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 25° B) 30° C) 35° D) 40° E) 50°

29.



O, merkez *(center)*

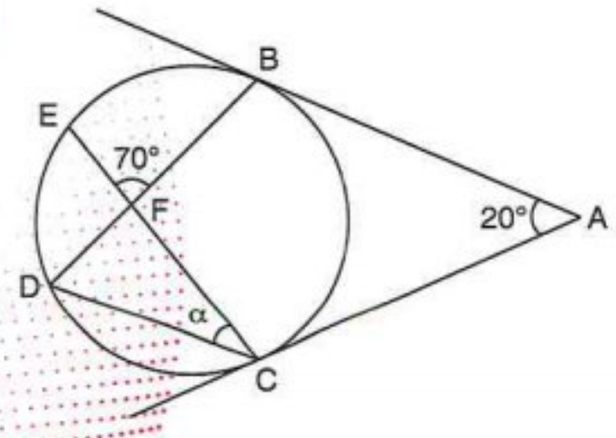
$|AB| = |BC| = |DE|$

$m(\widehat{ABC}) = 130°$

$\Rightarrow m(\widehat{AFD}) = \alpha = ?$

A) 95° B) 100° C) 105° D) 110° E) 130°

30.



$m(\widehat{BAC}) = 20°$

$m(\widehat{BFE}) = 70°$

$\Rightarrow m(\widehat{DCE}) = \alpha = ?$

A) 10° B) 15° C) 20° D) 25° E) 30°

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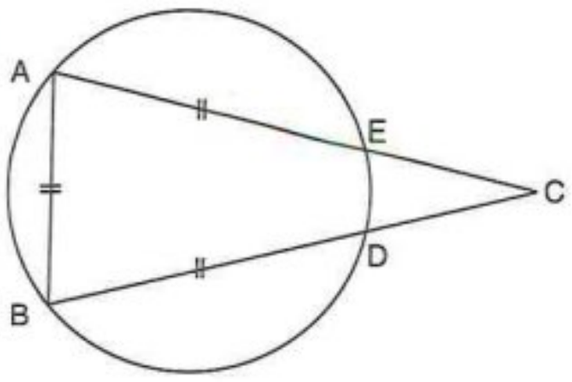
31.



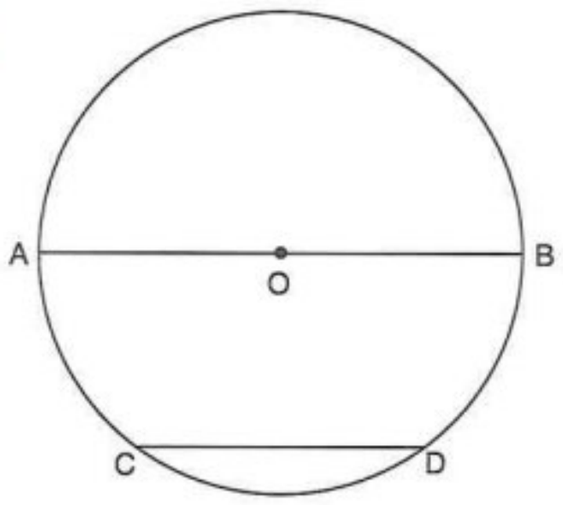
$|AE| = |AB| = |BD|$

$m(\widehat{DE}) = 75°$

$\Rightarrow m(\widehat{ACB}) = ?$

A) 5° B) 10° C) 15° D) 20° E) 25°

32.



O, merkez *(center)*

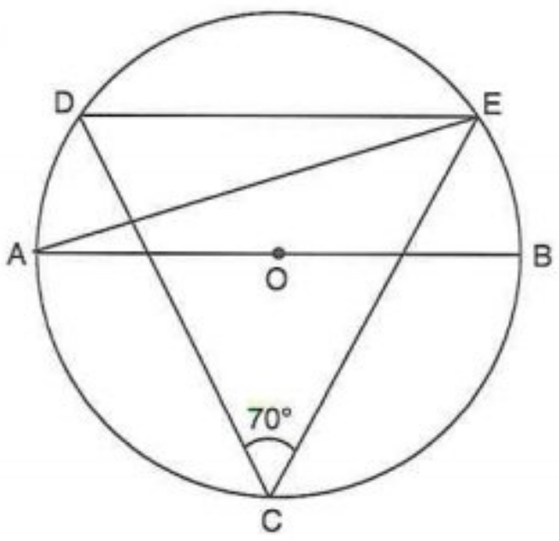
$[CD] \parallel [AB]$

$m(\widehat{AC}) = 70°$

$\Rightarrow m(\widehat{CD}) = ?$

A) 20° B) 25° C) 30° D) 35° E) 40°

33.



O, merkez *(center)*

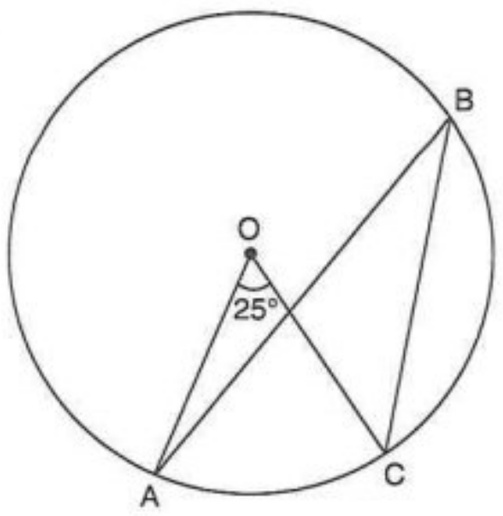
$[DE] \parallel [AB]$

$m(\widehat{DCE}) = 70°$

$\Rightarrow m(\widehat{EAB}) = ?$

A) 10° B) 15° C) 20° D) 30° E) 35°

34.



O, merkez *(center)*

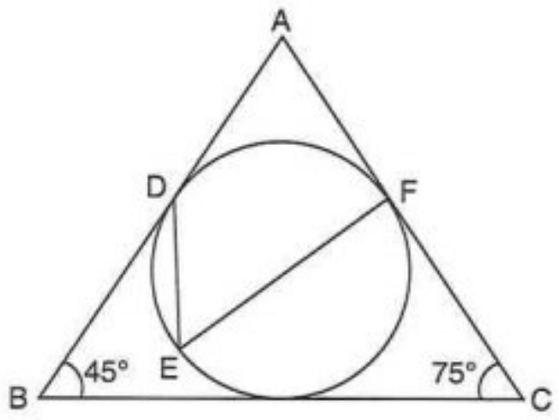
$[OA] \parallel [BC]$

$m(\widehat{AOC}) = 25°$

$\Rightarrow m(\widehat{BC}) = ?$

A) 80° B) 85° C) 105° D) 120° E) 130°

35.



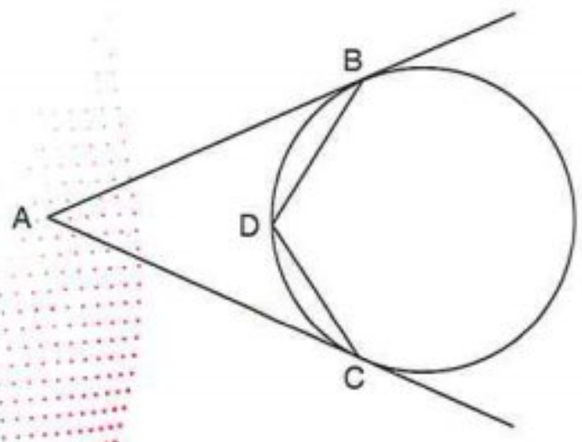
$m(\widehat{ABC}) = 45°$

$m(\widehat{ACB}) = 75°$

$\Rightarrow m(\widehat{DEF}) = ?$

A) 75° B) 70° C) 65° D) 60° E) 55°

36.



$m(\widehat{BAC}) = 40°$

$\Rightarrow m(\widehat{BDC}) = ?$

A) 100° B) 110° C) 120° D) 130° E) 140°

25. C	26. B	27. E	28. D	29. C	30. E
31. B	32. E	33. A	34. E	35. D	36. B

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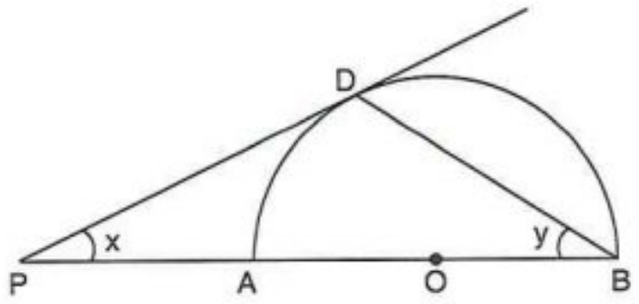
37.



O, merkez *(center)*

$m(\widehat{DPB}) = x$

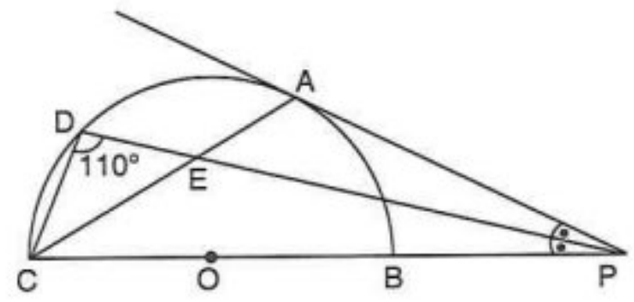
$m(\widehat{DBP}) = y$

$\frac{x}{y} = \frac{5}{2}$

⇒ $m(\widehat{DPB}) = x = ?$

A) 20° B) 30° C) 40° D) 50° E) 60°

38.



O, merkez *(center)*

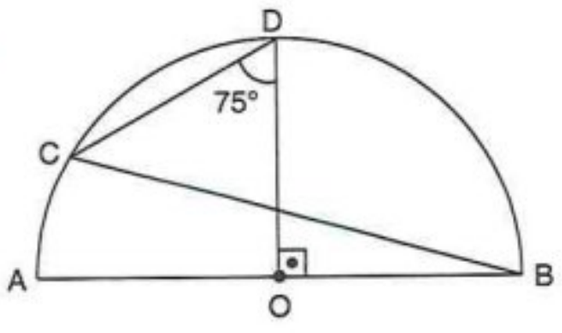
$m(\widehat{APD}) = m(\widehat{DPC})$

$m(\widehat{CDP}) = 110°$

⇒ $m(\widehat{DCA}) = ?$

A) 20° B) 25° C) 30° D) 35° E) 40°

39.



O, merkez *(center)*

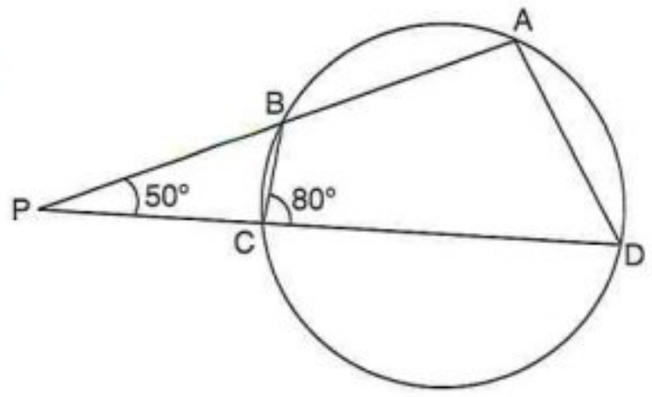
$[DO] \perp [AB]$

$m(\widehat{CDO}) = 75°$

⇒ $m(\widehat{ABC}) = ?$

A) 15° B) 20° C) 25° D) 30° E) 35°

40.



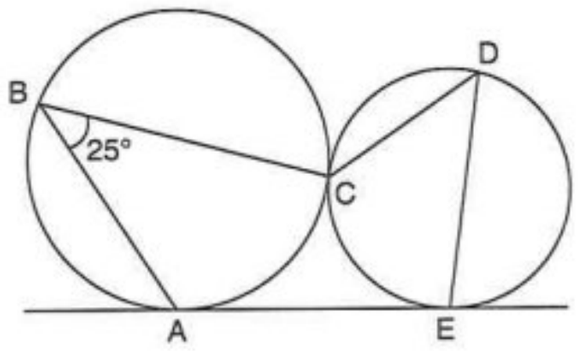
$m(\widehat{APD}) = 50°$

$m(\widehat{BCD}) = 80°$

⇒ $m(\widehat{ADP}) = ?$

A) 25° B) 30° C) 35° D) 40° E) 45°

41.

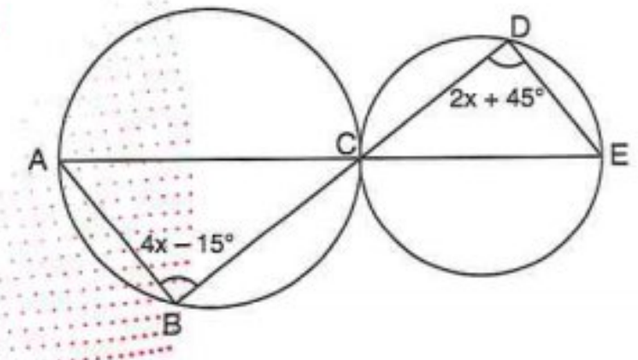


$m(\widehat{ABC}) = 25°$

⇒ $m(\widehat{CDE}) = ?$

A) 50° B) 55° C) 60° D) 65° E) 70°

42.



$m(\widehat{ABC}) = 4x - 15°$

$m(\widehat{CDE}) = 2x + 45°$

⇒ $m(\widehat{CDE}) = ?$

A) 150° B) 160° C) 180° D) 200° E) 210°

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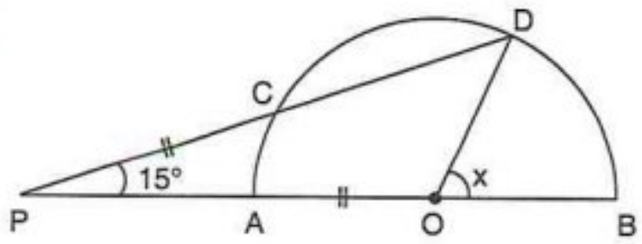
43.



O, merkez *(center)*

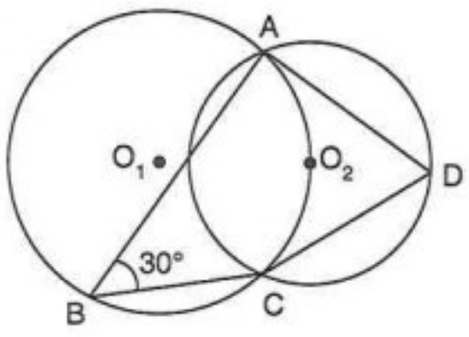
$|PC| = |AO|$

$m(\widehat{DPB}) = 15°$

⇒ $m(\widehat{DOB}) = ?$

A) 15° B) 30° C) 45° D) 60° E) 75°

44.



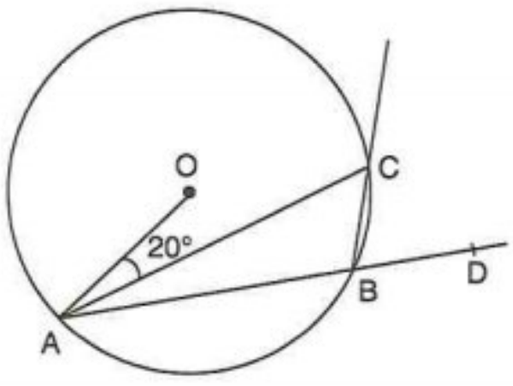
O_1 ve O_2, merkez *(center)*

$m(\widehat{ABC}) = 30°$

⇒ $m(\widehat{ADC}) = ?$

A) 60° B) 75° C) 90° D) 115° E) 120°

45.



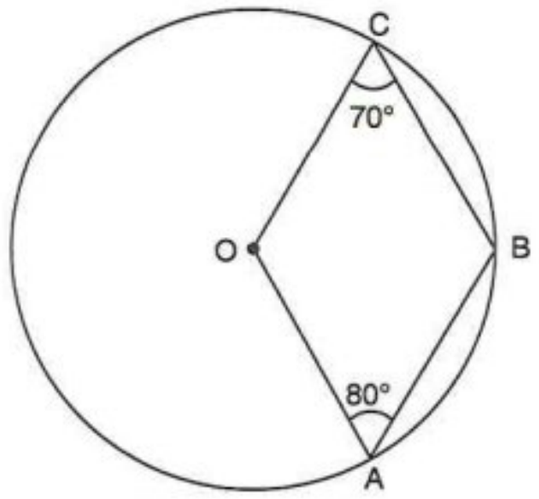
O, merkez *(center)*

$m(\widehat{OAC}) = 20°$

⇒ $m(\widehat{CBD}) = ?$

A) 60° B) 65° C) 70° D) 75° E) 80°

46.



O merkez *(center)*

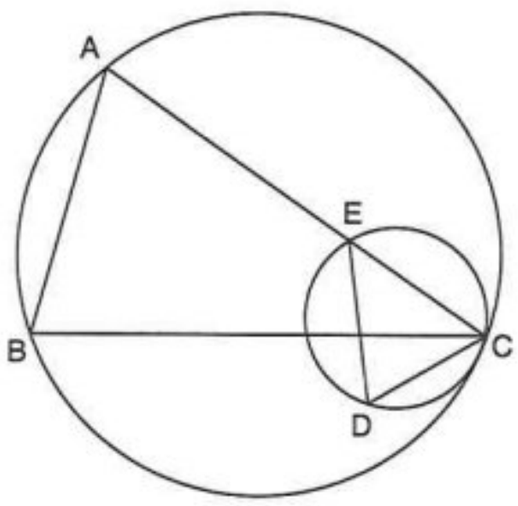
$m(\widehat{OCB}) = 70°$

$m(\widehat{OAB}) = 80°$

⇒ $m(\widehat{ABC}) = ?$

A) 110° B) 120° C) 130° D) 140° E) 150°

47.



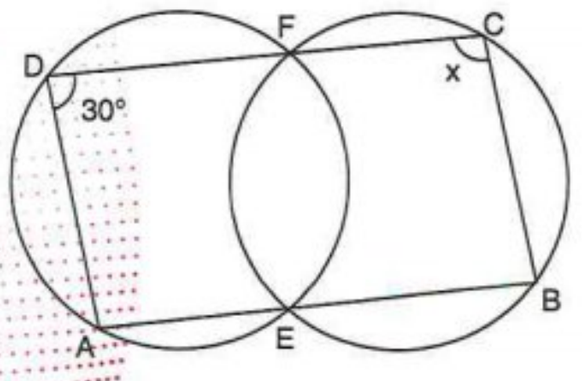
$m(\widehat{EDC}) = 70°$

$m(\widehat{BCA}) = 45°$

⇒ $m(\widehat{BAC}) = ?$

A) 45° B) 60° C) 65° D) 70° E) 85°

48.



$m(\widehat{ADC}) = 30°$

⇒ $m(\widehat{DCB}) = x = ?$

A) 30° B) 60° C) 90° D) 120° E) 150°

37. D	38. B	39. D	40. B	41. D	42. A
43. C	44. B	45. C	46. E	47. C	48. E

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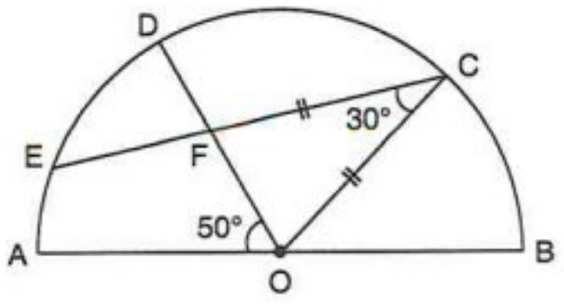
1.



O, merkez *(center)*

$|CF| = |CO|$

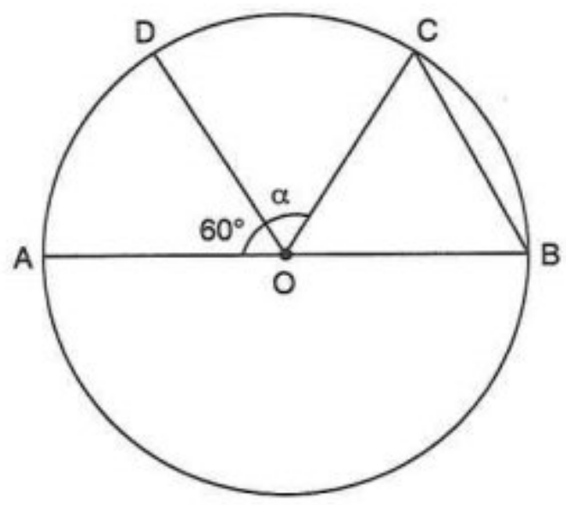
$m(\widehat{AOD}) = 50°$

$m(\widehat{FCO}) = 30°$

$\Rightarrow$ **$m(\widehat{AE}) = ?$**

A) 5° B) 10° C) 15° D) 20° E) 25°

2.



O, merkez *(center)*

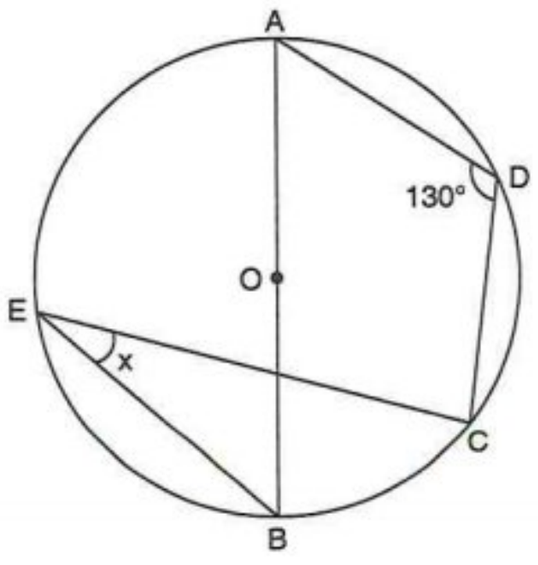
$m(\widehat{ABC}) = 70°$

$m(\widehat{AOD}) = 60°$

$\Rightarrow$ **$m(\widehat{DOC}) = ?$**

A) 65° B) 70° C) 75° D) 80° E) 85°

3.



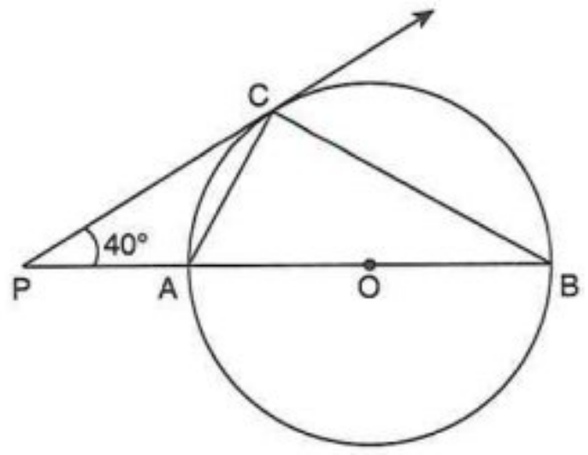
O, merkez *(center)*

$m(\widehat{ADC}) = 130°$

$\Rightarrow$ **$m(\widehat{CEB}) = x = ?$**

A) 30° B) 35° C) 40° D) 45° E) 50°

4.



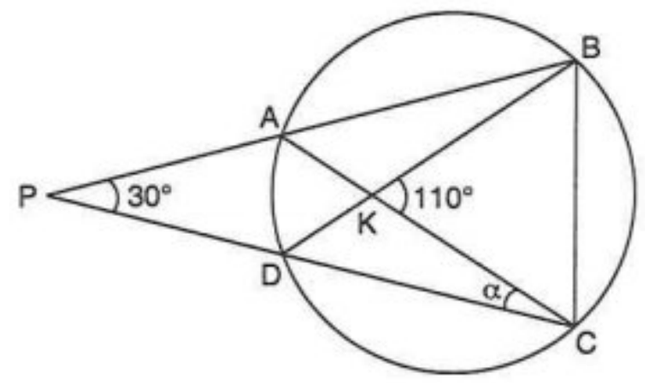
O, merkez *(center)*

$m(\widehat{CPB}) = 40°$

$\Rightarrow$ **$m(\widehat{PCB}) = ?$**

A) 115° B) 120° C) 125° D) 130° E) 135°

5.



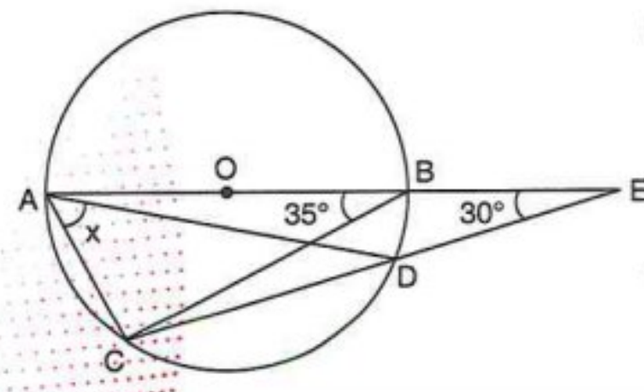
$m(\widehat{BPC}) = 30°$

$m(\widehat{BKC}) = 110°$

$\Rightarrow$ **$m(\widehat{ACP}) = \alpha = ?$**

A) 40° B) 45° C) 50° D) 55° E) 60°

6.



O, merkez *(center)*

$m(\widehat{ABC}) = 35°$

$m(\widehat{AEC}) = 30°$

$\Rightarrow$ **$m(\widehat{CAD}) = x = ?$**

A) 45° B) 50° C) 55° D) 60° E) 65°

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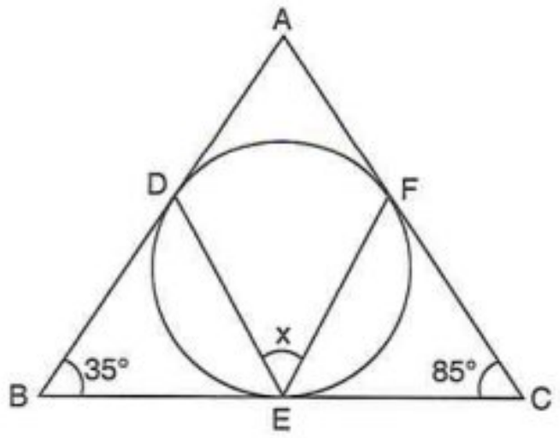
7.

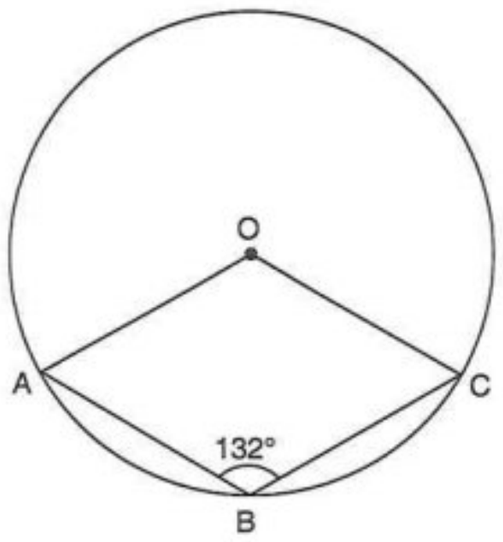


$m(\widehat{ABC}) = 35°$
$m(\widehat{ACB}) = 85°$

$\Rightarrow m(\widehat{DEF}) = x = ?$

A) 50° B) 60° C) 65° D) 70° E) 75°

8.



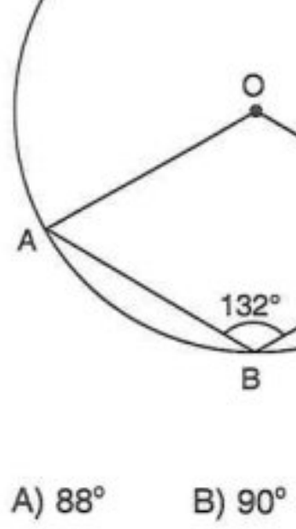
O, merkez *(center)*

$m(\widehat{ABC}) = 132°$

$\Rightarrow m(\widehat{AOC}) = ?$

A) 88° B) 90° C) 92° D) 94° E) 96°

9.



O, merkez *(center)*

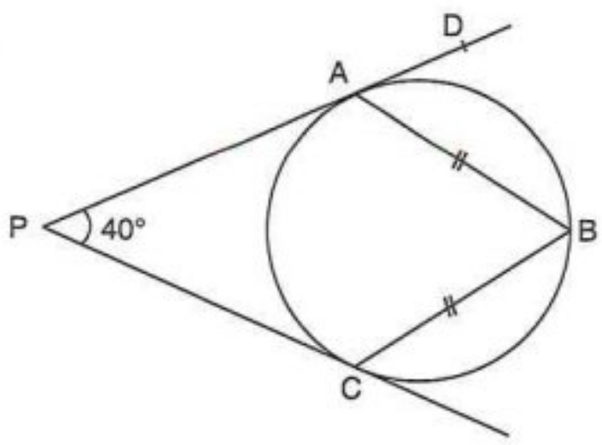
$[BD] \perp [OC]$

$m(\widehat{DBA}) = 40°$

$\Rightarrow m(\widehat{ACO}) = x = ?$

A) 20° B) 25° C) 30° D) 35° E) 40°

10.

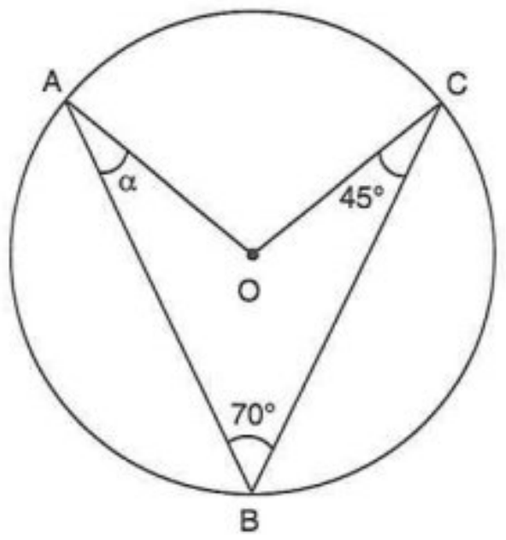


$|AB| = |BC|$
$m(\widehat{DPC}) = 40°$

$\Rightarrow m(\widehat{DAB}) = ?$

A) 40° B) 45° C) 50° D) 55° E) 60°

11.



O, merkez *(center)*

$m(\widehat{ABC}) = 70°$
$m(\widehat{OCB}) = 45°$

$\Rightarrow m(\widehat{BAO}) = \alpha = ?$

A) 15° B) 20° C) 25° D) 30° E) 35°

12.

$m(\widehat{ADC}) = 40°$

$\Rightarrow m(\widehat{ABC}) = \alpha = ?$

A) 20° B) 25° C) 40° D) 45° E) 50°

1. A	2. D	3. C	4. A	5. A	6. B
7. B	8. E	9. B	10. D	11. C	12. E

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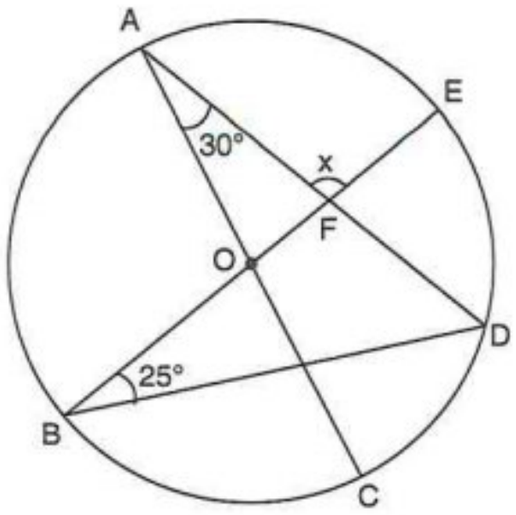
الممسوحة ضوئيا بـ CamScanner

1.



O, merkez *(center)*

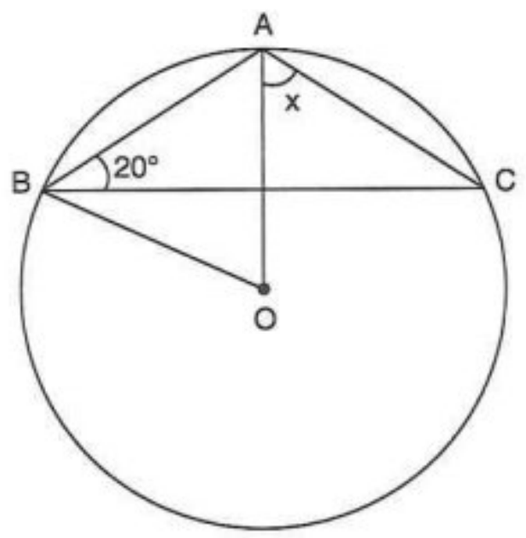
$m(\widehat{CAD}) = 30°$

$m(\widehat{EBD}) = 25°$

$\Rightarrow m(\widehat{AFE}) = x = ?$

A) 100° B) 105° C) 110° D) 115° E) 120°

2.



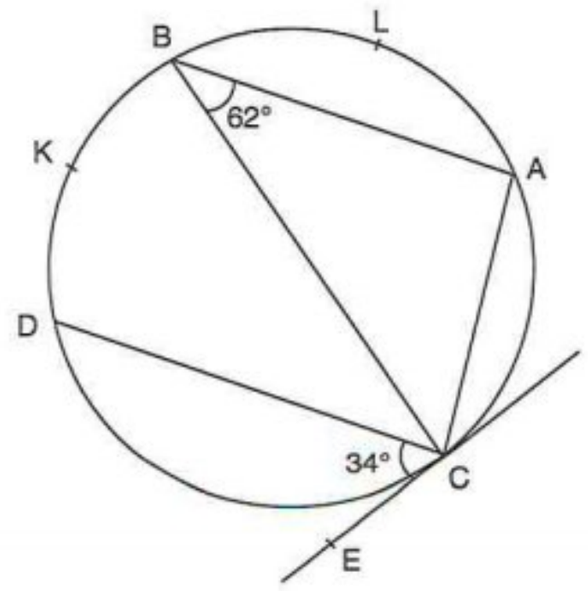
O, merkez *(center)*

$m(\widehat{ABC}) = 20°$

$\Rightarrow m(\widehat{OAC}) = x = ?$

A) 20° B) 30° C) 40° D) 55° E) 70°

3.



$m(\widehat{ABC}) = 62°$

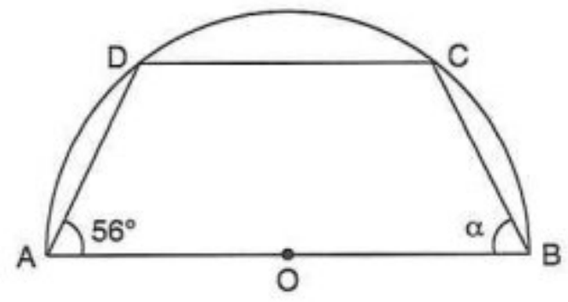
$m(\widehat{DCE}) = 34°$

$m(\overset{\frown}{DKB}) = 2 . m(\overset{\frown}{BLA})$

$\Rightarrow m(\widehat{ACB}) = ?$

A) 28° B) 29° C) 30° D) 31° E) 32°

4.



O, merkez *(center)*

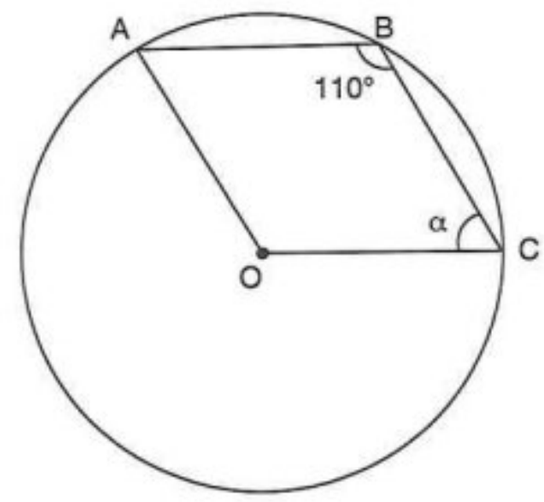
$|AD| = |DC|$

$m(\widehat{DAB}) = 56°$

$\Rightarrow m(\widehat{CBA}) = \alpha = ?$

A) 42° B) 44° C) 52° D) 56° E) 68°

5.



O, merkez *(center)*

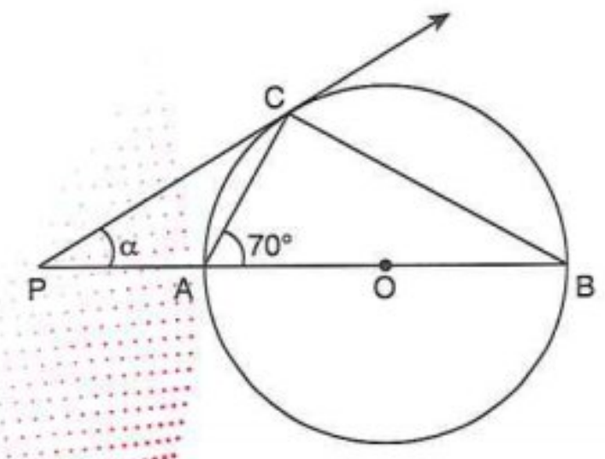
$m(\widehat{OAB}) = 80°$

$m(\widehat{ABC}) = 110°$

$\Rightarrow m(\widehat{BCO}) = \alpha = ?$

A) 10° B) 20° C) 30° D) 40° E) 50°

6.



O, merkez *(center)*

$m(\widehat{CAB}) = 70°$

$\Rightarrow m(\widehat{CPB}) = \alpha = ?$

A) 35° B) 40° C) 45° D) 50° E) 55°

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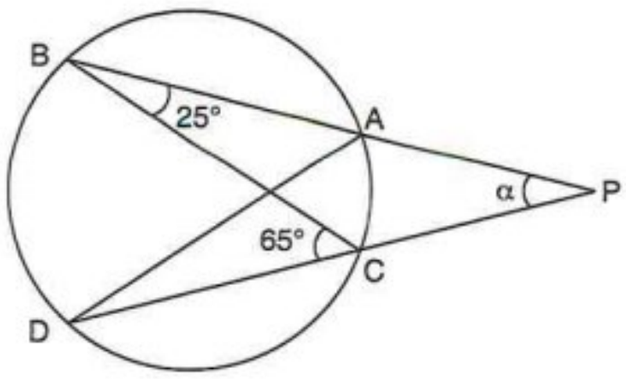
7.

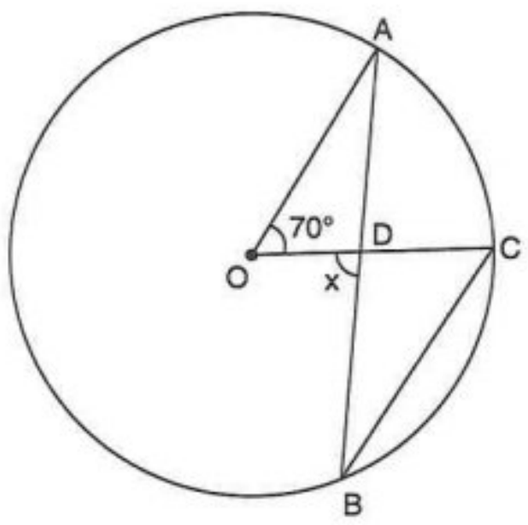


$m(P\widehat{B}C) = 25°$
$m(B\widehat{C}D) = 65°$

$\Rightarrow m(B\widehat{P}D) = \alpha = ?$

A) 40° B) 45° C) 50° D) 55° E) 60°

8.

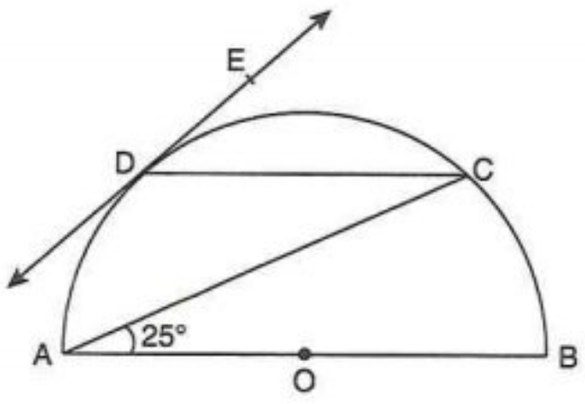


O, merkez *(center)*
$[OA] \,/\!/\, [BC]$
$m(A\widehat{O}C) = 70°$

$\Rightarrow m(O\widehat{D}B) = x = ?$

A) 70° B) 80° C) 95° D) 100° E) 105°

9.

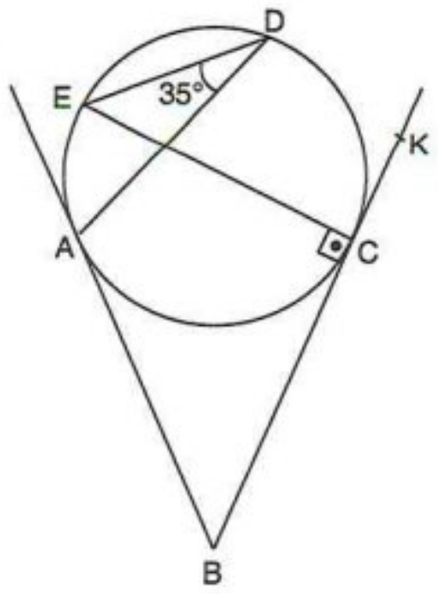


O, merkez *(center)*
$[DC] \,/\!/\, [AB]$
$m(C\widehat{A}B) = 25°$

$\Rightarrow m(E\widehat{D}C) = ?$

A) 40° B) 50° C) 55° D) 60° E) 65°

10.

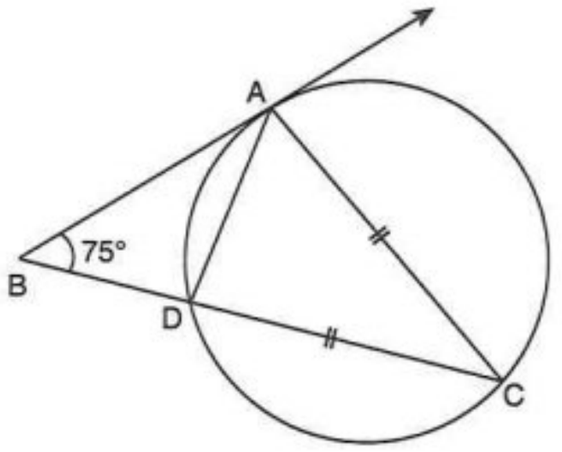


$[EC] \perp [BK]$
$m(E\widehat{D}A) = 35°$

$\Rightarrow m(\widehat{B}) = ?$

A) 35° B) 40° C) 55° D) 60° E) 70°

11.

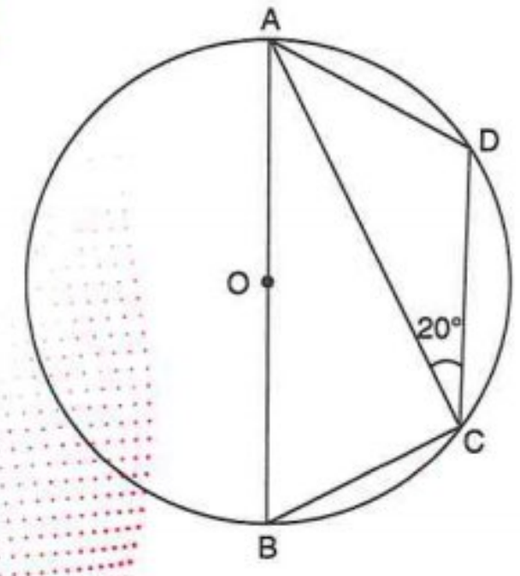


$|DC| = |AC|$
$m(A\widehat{B}C) = 75°$

$\Rightarrow m(B\widehat{A}D) = ?$

A) 5° B) 10° C) 15° D) 20° E) 25°

12.



O, merkez *(center)*
$|AD| = |BC|$
$m(A\widehat{C}D) = 20°$

$\Rightarrow m(A\widehat{B}C) = ?$

A) 40° B) 50° C) 60° D) 70° E) 80°

1. A	2. E	3. A	4. E	5. C	6. D
7. A	8. E	9. A	10. E	11. B	12. D

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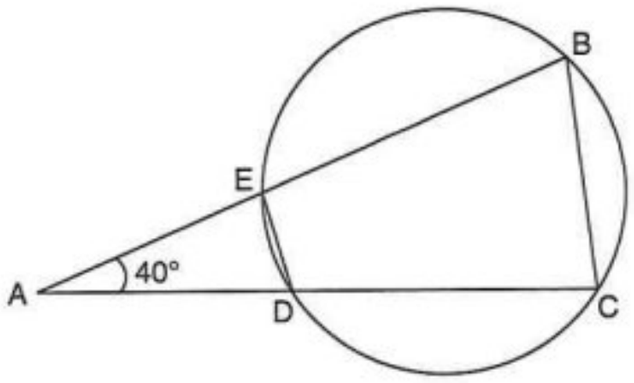
الممسوحة ضوئيا بـ CamScanner

1.

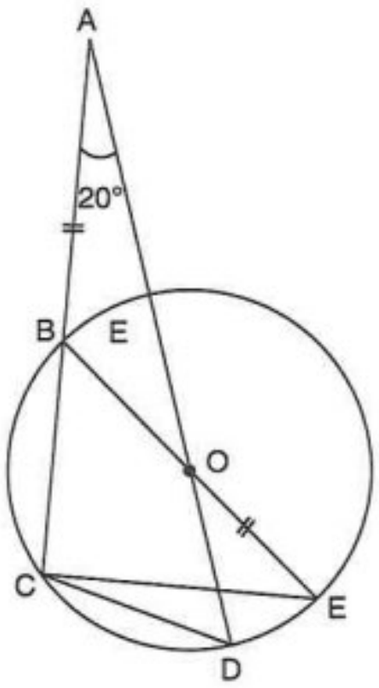


$[DE] \parallel [BC]$
$m(\widehat{BAC}) = 40°$

$\Rightarrow m(\widehat{ACB}) = ?$

A) 70° B) 75° C) 80° D) 85° E) 95°

2.

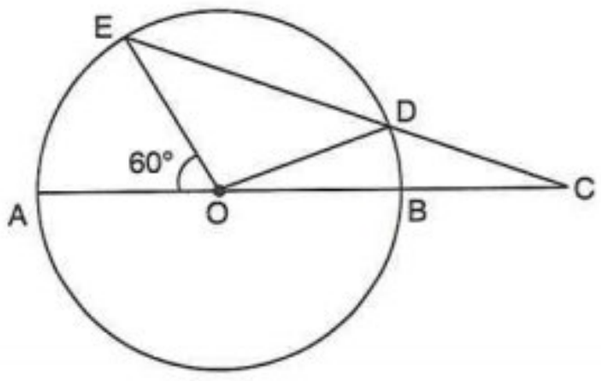


O, merkez *(center)*
$|AB| = |OE|$
$m(\widehat{CAD}) = 20°$

$\Rightarrow m(\widehat{CDA}) = ?$

A) 40° B) 50° C) 60° D) 70° E) 80°

3.

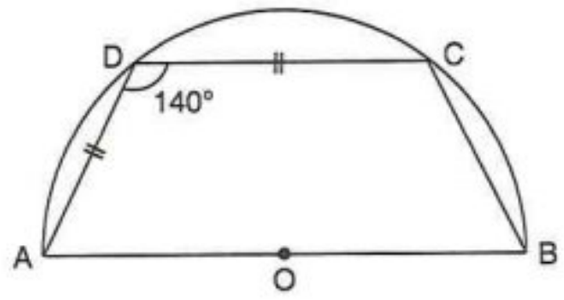


O, merkez*(center)*
$|OE| = |DC|$
$m(\widehat{AOE}) = 60°$

$\Rightarrow m(\widehat{DOC}) = ?$

A) 15° B) 20° C) 25° D) 30° E) 35°

4.

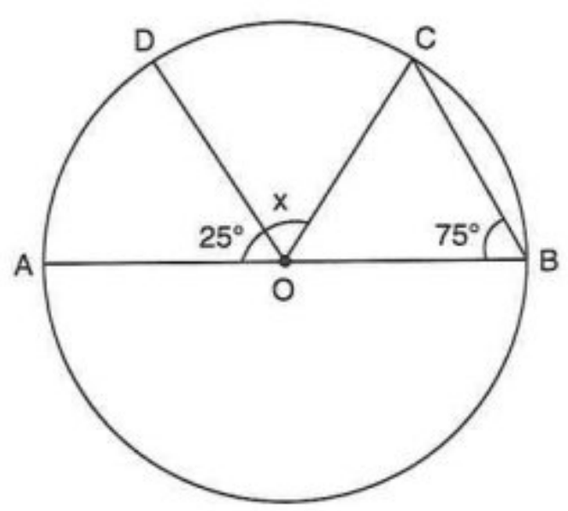


O, merkez (center)
$|AD| = |DC|$
$m(\widehat{ADC}) = 140°$

$\Rightarrow m(\widehat{BCD}) = ?$

A) 100° B) 110° C) 120° D) 130° E) 140°

5.

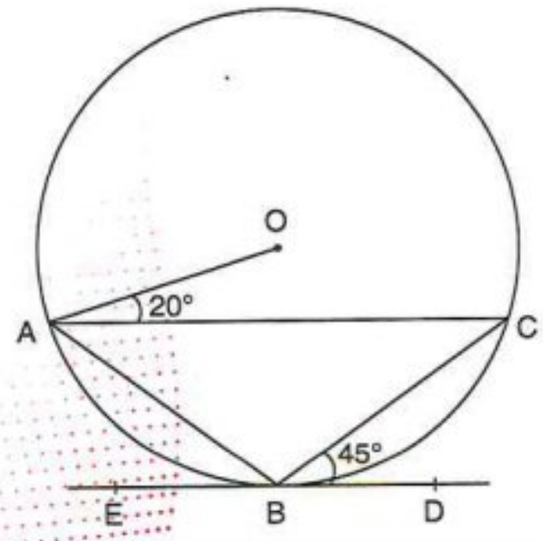


O, merkez *(center)*
$m(\widehat{ABC}) = 75°$
$m(\widehat{AOD}) = 25°$

$\Rightarrow m(\widehat{DOC}) = x = ?$

A) 110° B) 115° C) 120° D) 125° E) 130°

6.



O, merkez *(center)*
$m(\widehat{OAC}) = 20°$
$m(\widehat{CBD}) = 45°$

$\Rightarrow m(\widehat{ABE}) = ?$

A) 25° B) 30° C) 35° D) 40° E) 45°

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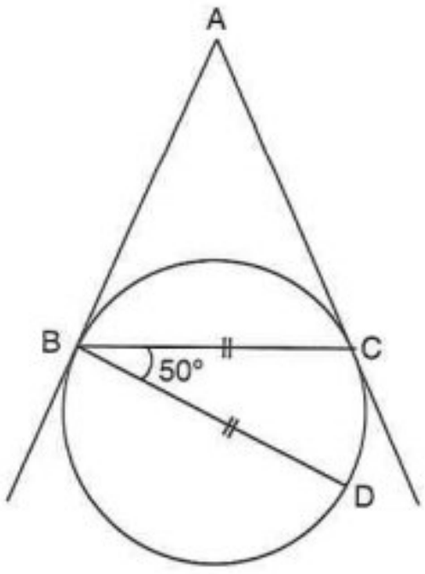
7.



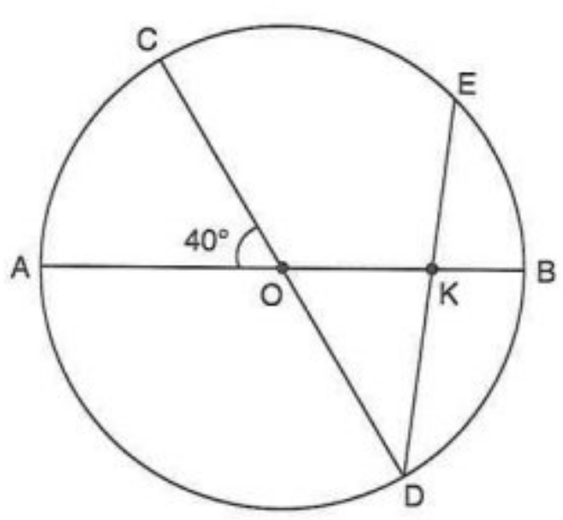
$|BC| = |CD|$

$m(D\widehat{B}C) = 50°$

$\Rightarrow$ **$m(B\widehat{A}C) = ?$**

A) 40° B) 45° C) 50° D) 55° E) 60°

8.



O, merkez *(center)*

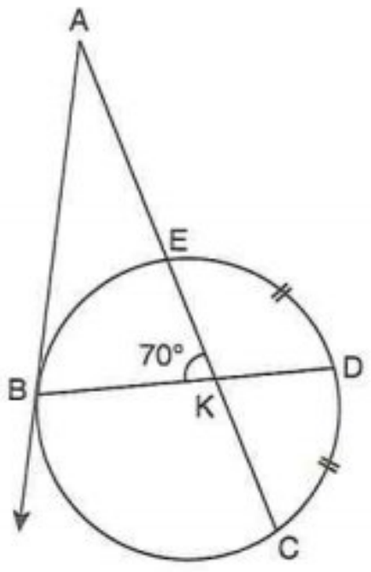
$m(\widehat{CE}) = m(\widehat{EB})$

$m(A\widehat{O}C) = 40°$

$\Rightarrow$ **$m(E\widehat{K}B) = ?$**

A) 100° B) 105° C) 110° D) 115° E) 120°

9.



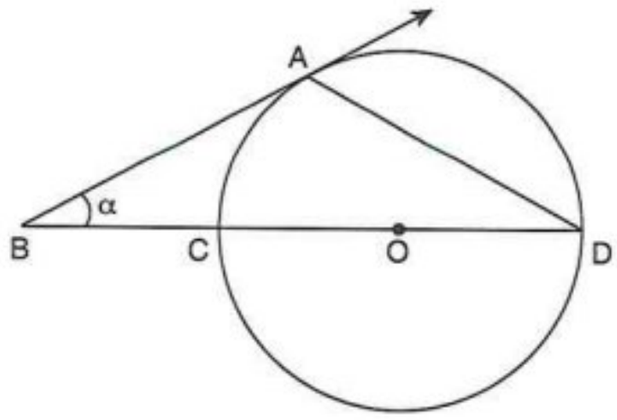
$m(\widehat{ED}) = m(\widehat{DC})$

$m(B\widehat{K}A) = 70°$

$\Rightarrow$ **$m(B\widehat{A}C) = ?$**

A) 20° B) 25° C) 30° D) 35° E) 40°

10.



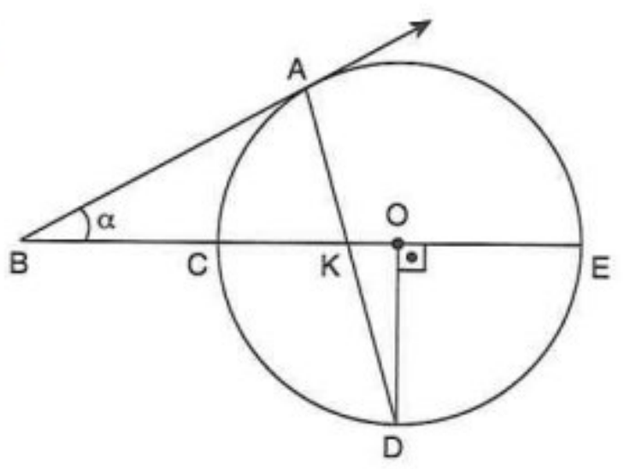
O, merkez *(center)*

$m(B\widehat{A}D) = 110°$

$\Rightarrow$ **$m(A\widehat{B}D) = \alpha = ?$**

A) 20° B) 30° C) 40° D) 50° E) 60°

11.



O, merkez *(center)*

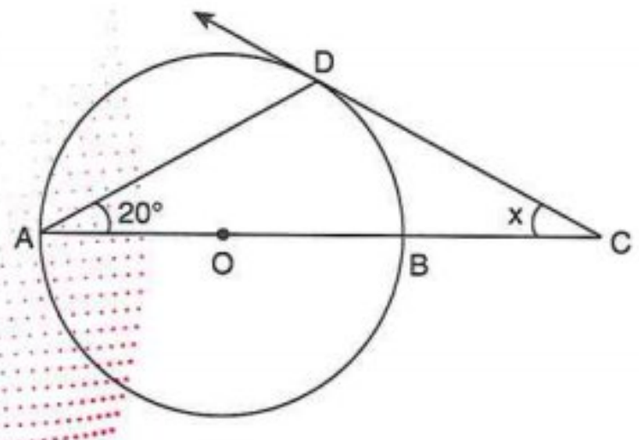
$[OD] \perp [BE]$

$m(A\widehat{K}B) = 75°$

$\Rightarrow$ **$m(A\widehat{B}E) = \alpha = ?$**

A) 15° B) 20° C) 25° D) 30° E) 35°

12.



O, merkez *(center)*

$m(D\widehat{A}C) = 20°$

$\Rightarrow$ **$m(A\widehat{C}D) = x = ?$**

A) 20° B) 25° C) 35° D) 40° E) 50°

1. A	2. C	3. B	4. B	5. D	6. A
7. C	8. B	9. E	10. D	11. D	12. E

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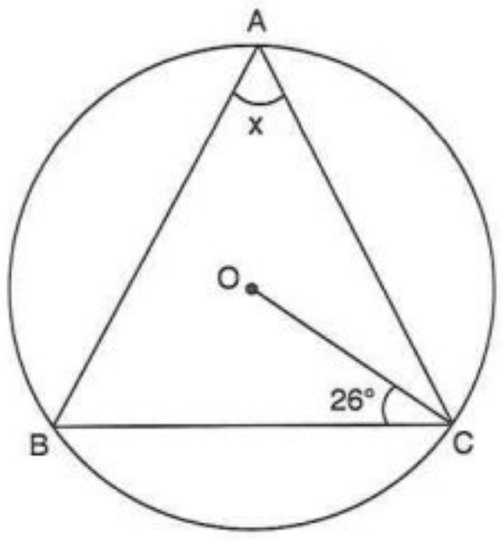
1.



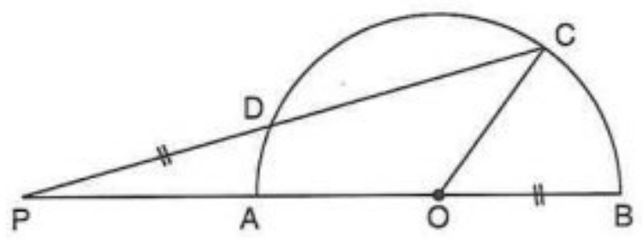
O, merkez *(center)*

$m(\widehat{OCB}) = 26°$

⇒ $\mathbf{m(\widehat{BAC}) = x = ?}$

A) 52° B) 54° C) 58° D) 62° E) 64°

2.



O, merkez *(center)*

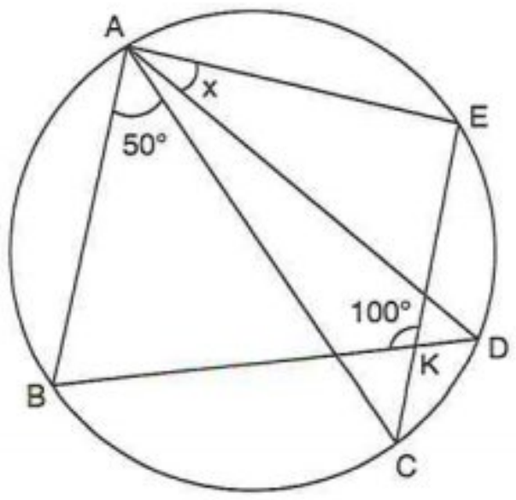
$|PD| = |OB|$

$m(\widehat{COB}) = 72°$

⇒ $\mathbf{m(\widehat{CPB}) = ?}$

A) 18° B) 24° C) 36° D) 48° E) 72°

3.



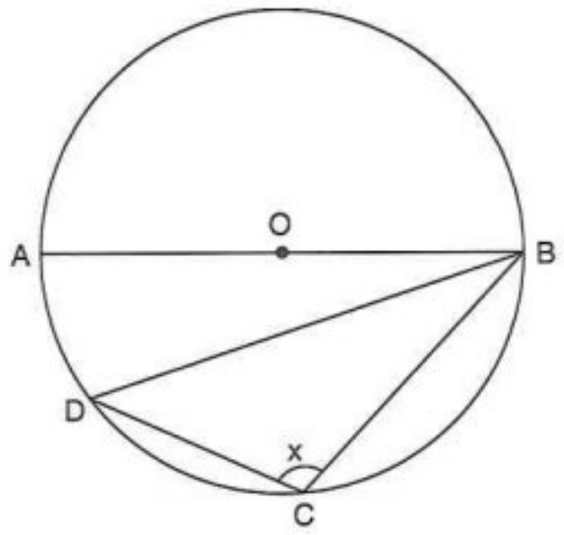
$m(\widehat{BAC}) = 50°$

$m(\widehat{BKE}) = 100°$

⇒ $\mathbf{m(\widehat{DAE}) = x = ?}$

A) 20° B) 25° C) 30° D) 35° E) 40°

4.



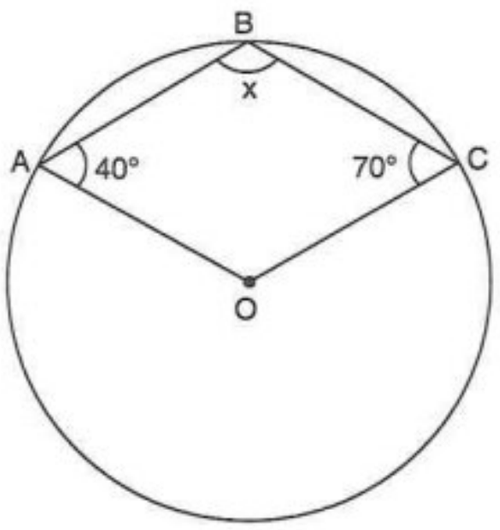
O, merkez *(center)*

$m(\widehat{ABD}) = 40°$

⇒ $\mathbf{m(\widehat{DCB}) = x = ?}$

A) 110° B) 115° C) 120° D) 125° E) 130°

5.



O, merkez *(center)*

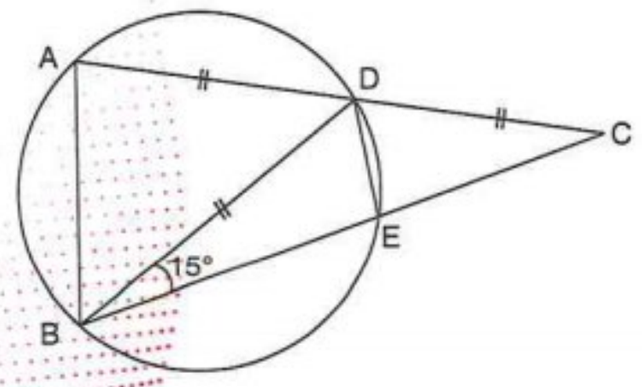
$m(\widehat{BAO}) = 40°$

$m(\widehat{BCO}) = 70°$

⇒ $\mathbf{m(\widehat{ABC}) = x = ?}$

A) 80° B) 90° C) 100° D) 110° E) 120°

6.



O, merkez *(center)*

$|AD| = |DC| = |BD|$

$m(\widehat{DBC}) = 15°$

⇒ $\mathbf{m(\widehat{DEB}) = ?}$

A) 100° B) 105° C) 110° D) 115° E) 120°

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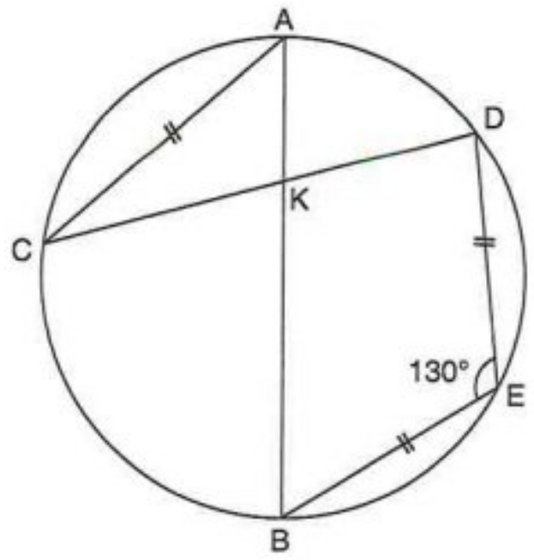
7.



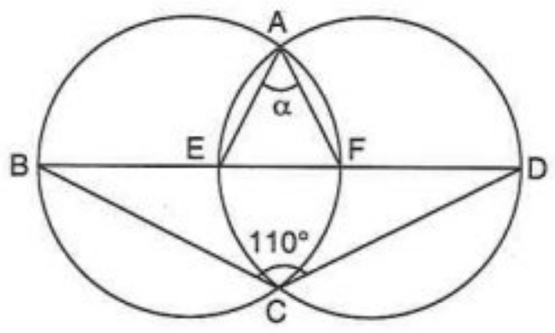
$|AC| = |DE| = |BE|$

$m(B\widehat{E}D) = 130°$

$\Rightarrow m(C\widehat{K}B) = ?$

A) 75° B) 85° C) 95° D) 100° E) 105°

8.

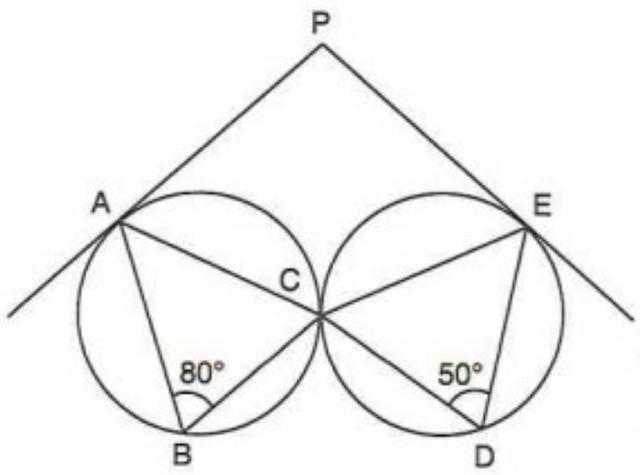


$m(B\widehat{C}D) = 110°$

$\Rightarrow m(E\widehat{A}F) = \alpha = ?$

A) 75° B) 70° C) 65° D) 60° E) 55°

9.



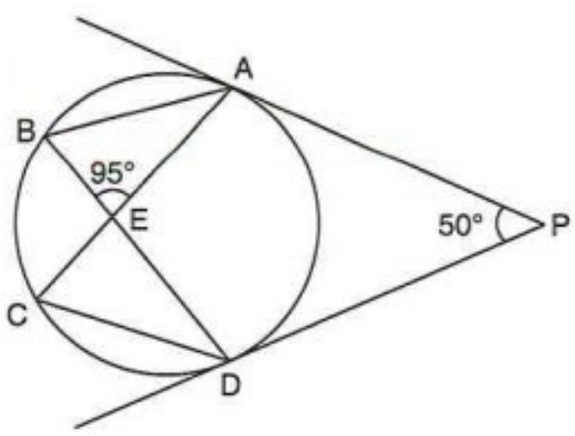
$m(A\widehat{B}C) = 80°$

$m(C\widehat{D}E) = 50°$

$\Rightarrow m(A\widehat{P}E) = ?$

A) 90° B) 100° C) 110° D) 120° E) 130°

10.



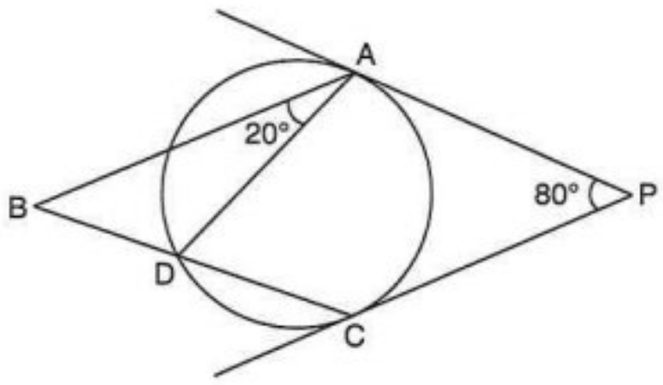
$m(A\widehat{P}D) = 50°$

$m(B\widehat{E}A) = 95°$

$\Rightarrow m(\widehat{CB}) = ?$

A) 30° B) 35° C) 40° D) 45° E) 50°

11.



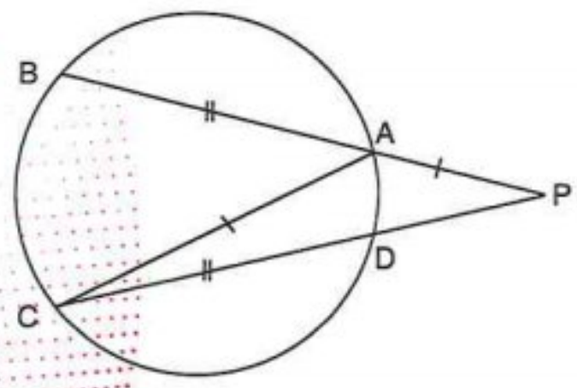
$m(B\widehat{A}D) = 20°$

$m(A\widehat{P}C) = 80°$

$\Rightarrow m(A\widehat{B}C) = ?$

A) 20° B) 25° C) 30° D) 35° E) 40°

12.



$|AB| = |CD|$

$|AC| = |AP|$

$3 \cdot m(\widehat{AD}) = 2 \cdot m(\widehat{CD})$

$\Rightarrow m(B\widehat{P}C) = ?$

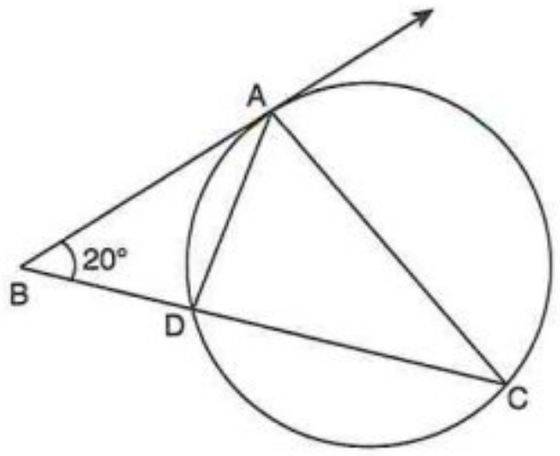
A) 10° B) 15° C) 20° D) 30° E) 45°

1. E	2. B	3. C	4. E	5. D	6. B
7. E	8. B	9. B	10. C	11. C	12. D

IRANINOVIN

الممسوحة ضوئيا بـ CamScanner

1.

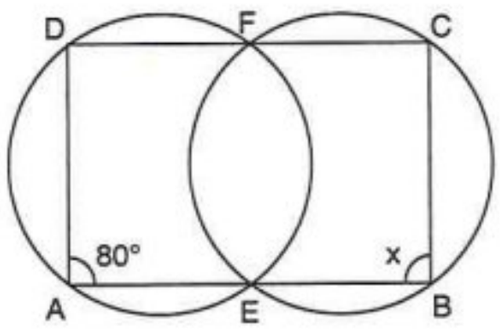


$m(\widehat{DAC}) = 2 \cdot m(\widehat{BCA})$
$m(\widehat{ABC}) = 20°$

$\Rightarrow$ **$m(\widehat{DAC}) = ?$**

A) 40° B) 50° C) 60° D) 80° E) 100°

2.

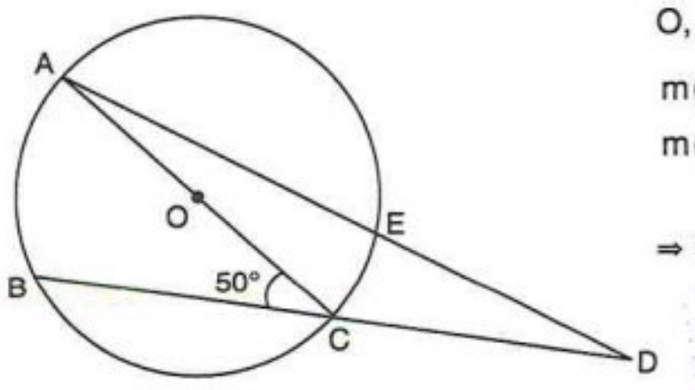


$m(\widehat{DAB}) = 80°$

$\Rightarrow$ **$m(\widehat{ABC}) = x = ?$**

A) 80° B) 90° C) 100° D) 120° E) 160°

3.

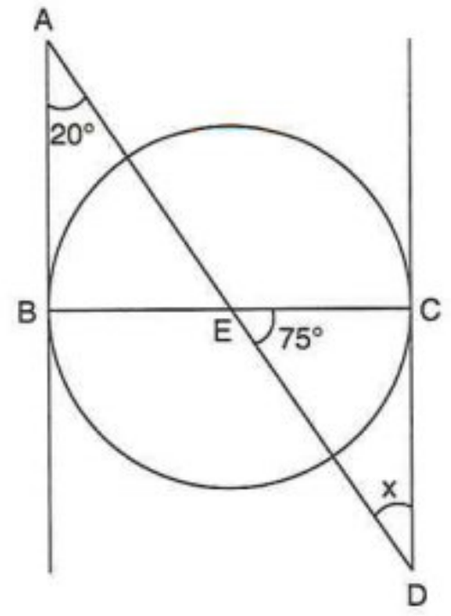


O, merkez *(center)*
$m(\widehat{BC}) = 2 \cdot m(\widehat{EC})$
$m(\widehat{ACB}) = 50°$

$\Rightarrow$ **$m(\widehat{ADB}) = ?$**

A) 15° B) 20° C) 25° D) 30° E) 35°

4.

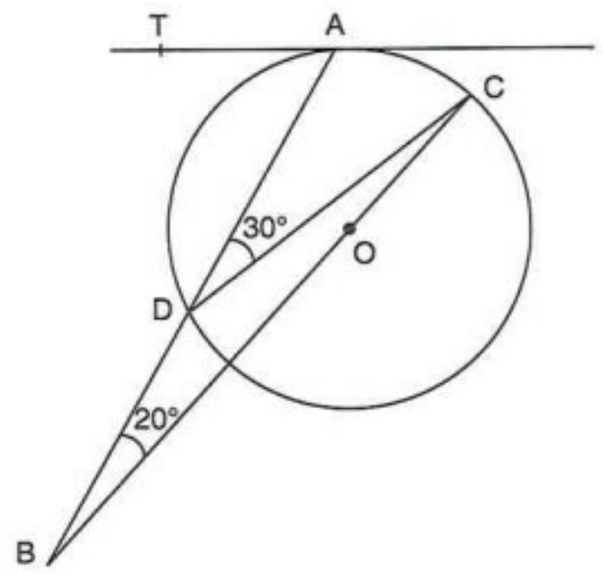


$m(\widehat{BAD}) = 20°$
$m(\widehat{CED}) = 75°$

$\Rightarrow$ **$m(\widehat{ADC}) = x = ?$**

A) 10° B) 15° C) 20° D) 25° E) 30°

5.

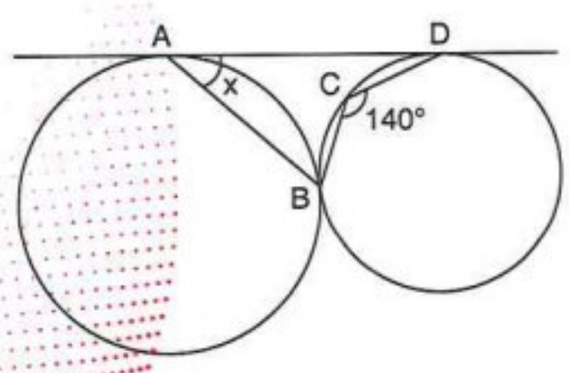


O, merkez *(center)*
$m(\widehat{ABC}) = 20°$
$m(\widehat{ADC}) = 30°$

$\Rightarrow$ **$m(\widehat{TAB}) = ?$**

A) 40° B) 50° C) 60° D) 70° E) 80°

6.



$m(\widehat{BCD}) = 140°$

$\Rightarrow$ **$m(\widehat{DAB}) = x = ?$**

A) 40° B) 50° C) 60° D) 70° E) 80°

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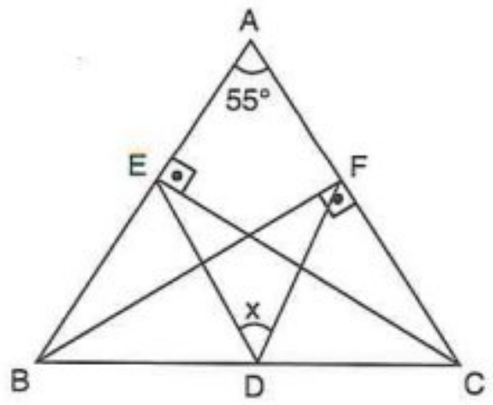
الممسوحة ضوئيا بـ CamScanner

7.

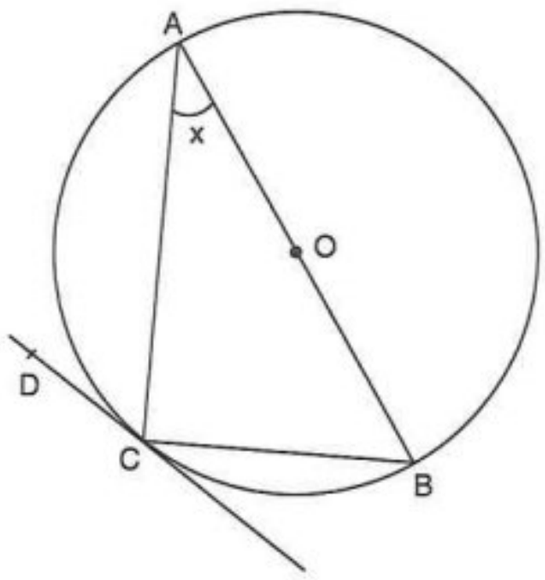


$[BF] \perp [AC]$
$[CE] \perp [AB]$
$|BD| = |DC|$
$m(\widehat{BAC}) = 55°$

$\Rightarrow m(\widehat{EDF}) = x = ?$

A) 50° B) 55° C) 60° D) 65° E) 70°

8.



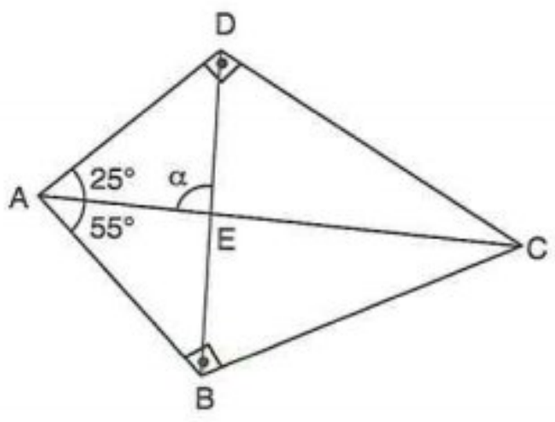
O, merkez *(center)*

$m(\widehat{DCA}) = 50°$

$\Rightarrow m(\widehat{CAB}) = x = ?$

A) 65° B) 50° C) 45° D) 40° E) 35°

9.

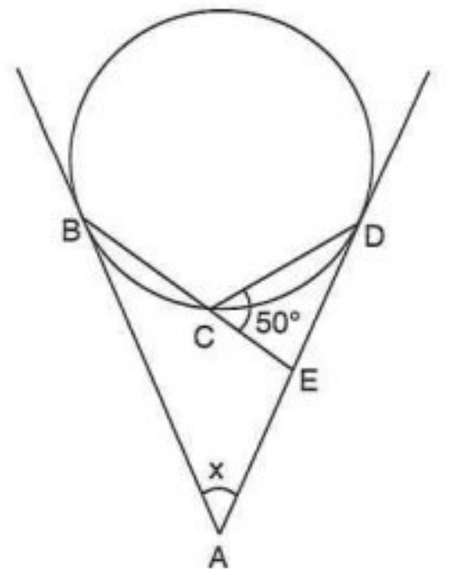


$[AB] \perp [BC]$
$[AD] \perp [DC]$
$m(\widehat{DAC}) = 25°$
$m(\widehat{CAB}) = 55°$

$\Rightarrow m(\widehat{AED}) = \alpha = ?$

A) 100° B) 110° C) 120° D) 130° E) 140°

10.

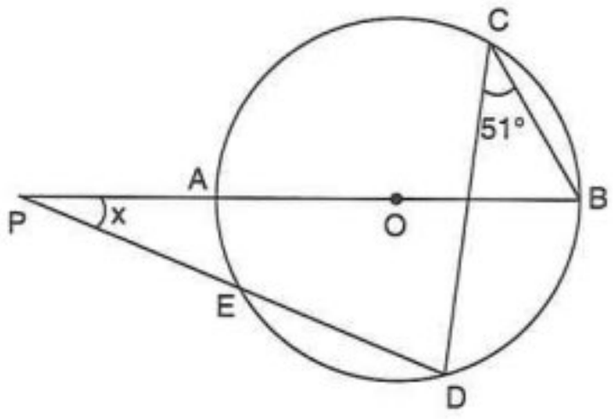


$m(\widehat{DCE}) = 50°$

$\Rightarrow m(\widehat{BAD}) = x = ?$

A) 50° B) 60° C) 70° D) 80° E) 100°

11.

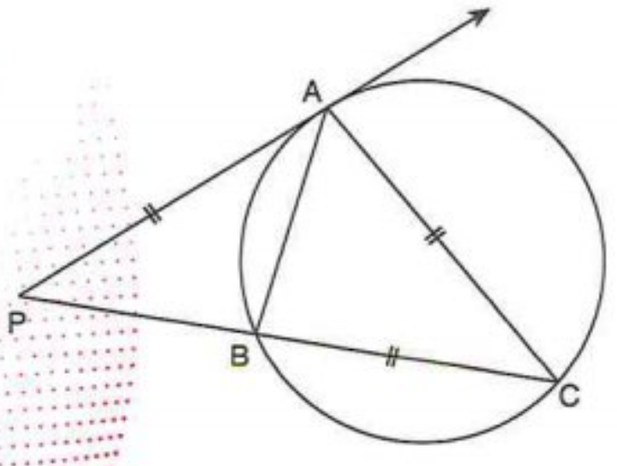


O, merkez *(center)*
$|PE| = |OB|$
$m(\widehat{DCB}) = 51°$

$\Rightarrow m(\widehat{BPD}) = x = ?$

A) 28° B) 34° C) 38° D) 42° E) 51°

12.



$|AP| = |AC| = |BC|$

$\Rightarrow m(\widehat{ABC}) = ?$

A) 18° B) 30° C) 36° D) 48° E) 72°

1. D	2. C	3. D	4. A	5. B	6. B
7. E	8. D	9. C	10. D	11. B	12. E

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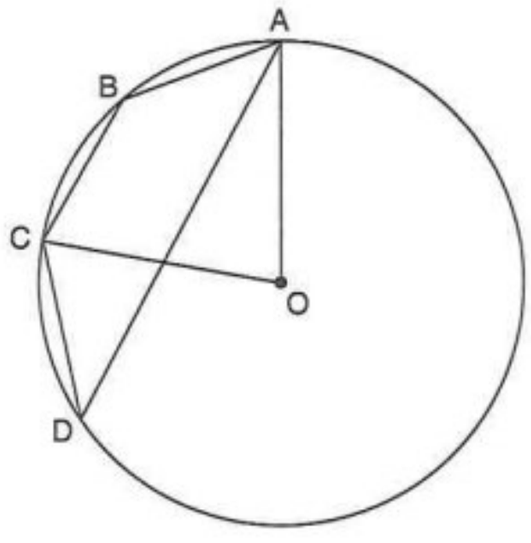
الممسوحة ضوئيا بـ CamScanner

1.



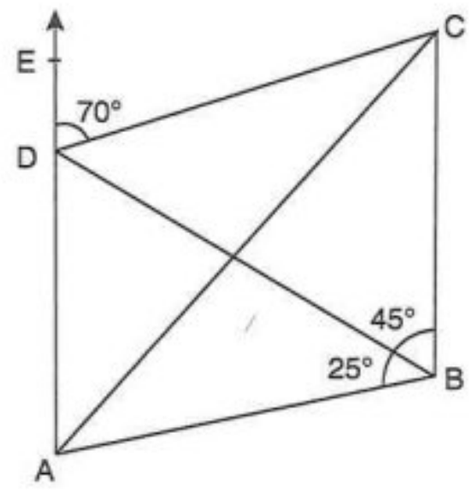
O, merkez *(center)*

$2 \cdot m(\widehat{ABC}) = 7 \cdot m(\widehat{CDA})$

$\Rightarrow \mathbf{m(\widehat{COA}) = ?}$

A) 40° B) 60° C) 80° D) 100° E) 120°

2.

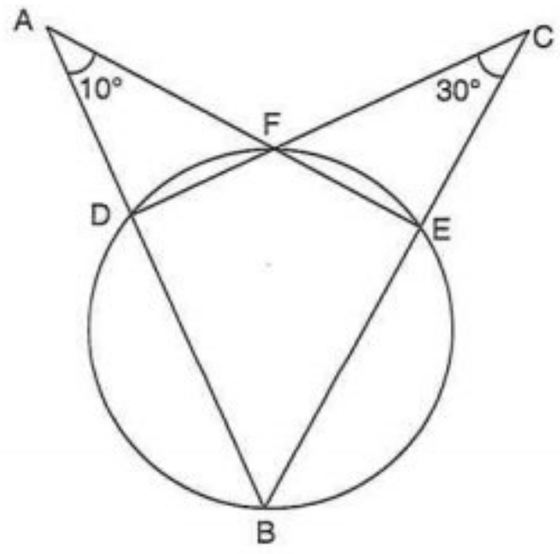


$m(\widehat{ABD}) = 25°$
$m(\widehat{DBC}) = 45°$
$m(\widehat{EDC}) = 70°$

$\Rightarrow \mathbf{m(\widehat{EAC}) - m(\widehat{DCA}) = ?}$

A) 20° B) 25° C) 30° D) 35° E) 45°

3.

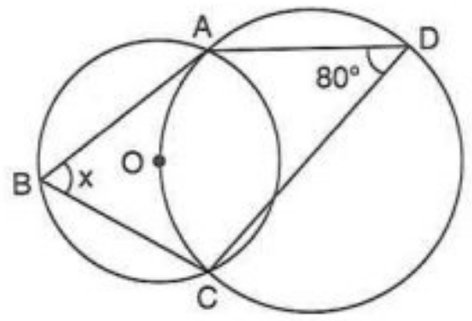


$m(\widehat{BAE}) = 10°$
$m(\widehat{DCB}) = 30°$

$\Rightarrow \mathbf{m(\widehat{ABC}) = ?}$

A) 40° B) 50° C) 60° D) 70° E) 80°

4.



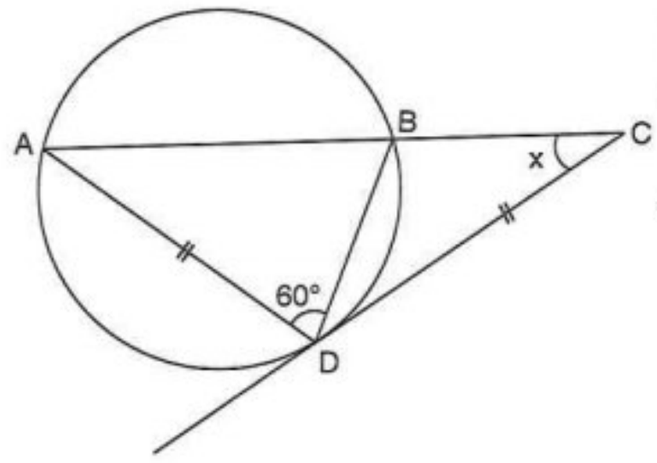
O, merkez *(center)*

$m(\widehat{ADC}) = 80°$

$\Rightarrow \mathbf{m(\widehat{ABC}) = x = ?}$

A) 80° B) 70° C) 60° D) 50° E) 40°

5.

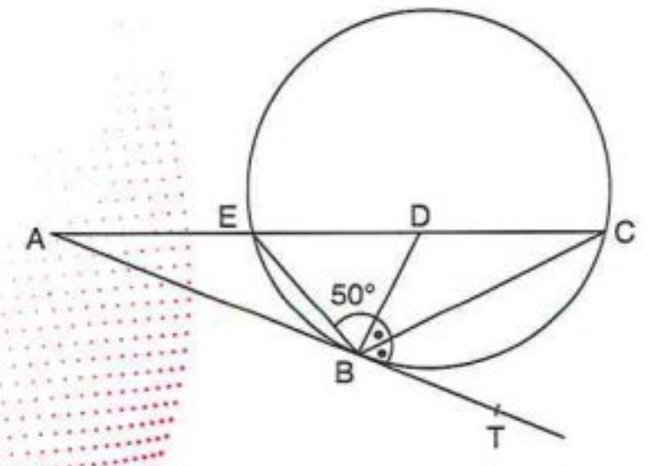


$|AD| = |DC|$
$m(\widehat{ADB}) = 60°$

$\Rightarrow \mathbf{m(\widehat{ACD}) = x = ?}$

A) 20° B) 30° C) 40° D) 60° E) 80°

6.



$m(\widehat{DBC}) = m(\widehat{CBT})$
$m(\widehat{EBD}) = 50°$
$m(\widehat{ACB}) = 30°$

$\Rightarrow \mathbf{m(\widehat{CAT}) = ?}$

A) 20° B) 25° C) 30° D) 35° E) 40°

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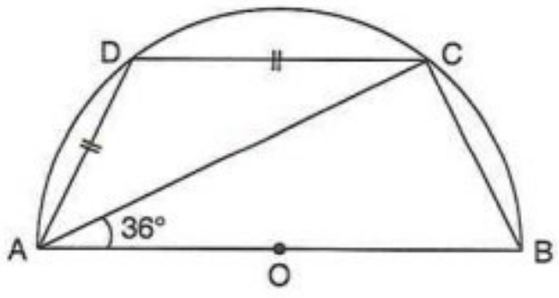
الممسوحة ضوئيا بـ CamScanner

7.



O, merkez *(center)*

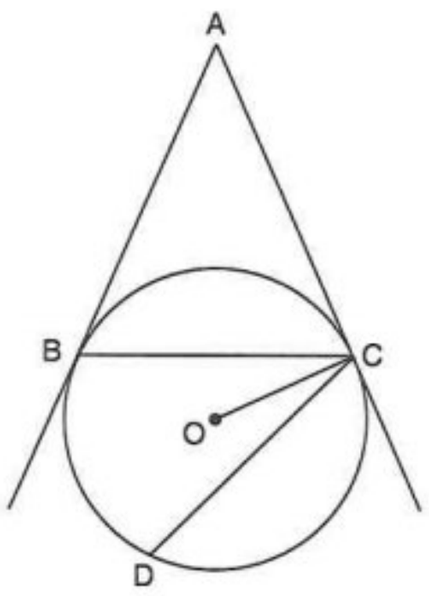
$|AD| = |DC|$

$m(\widehat{CAB}) = 36°$

$\Rightarrow m(\widehat{DCA}) = ?$

A) 18° B) 24° C) 27° D) 36° E) 42°

8.



O, merkez *(center)*

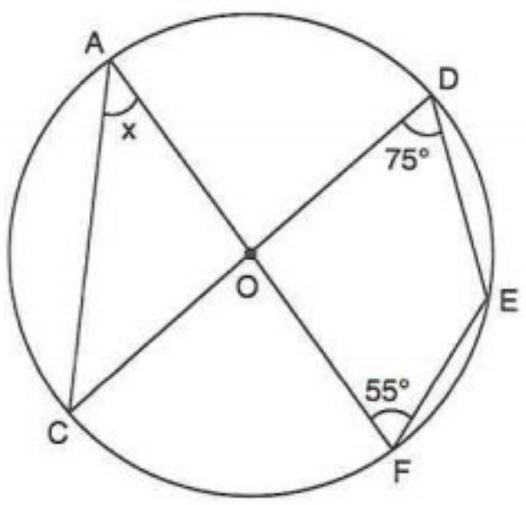
$|BC| = |CD|$

$m(\widehat{OCD}) = 25°$

$\Rightarrow m(\widehat{BAC}) = ?$

A) 25° B) 30° C) 50° D) 65° E) 75°

9.



O, merkez *(center)*

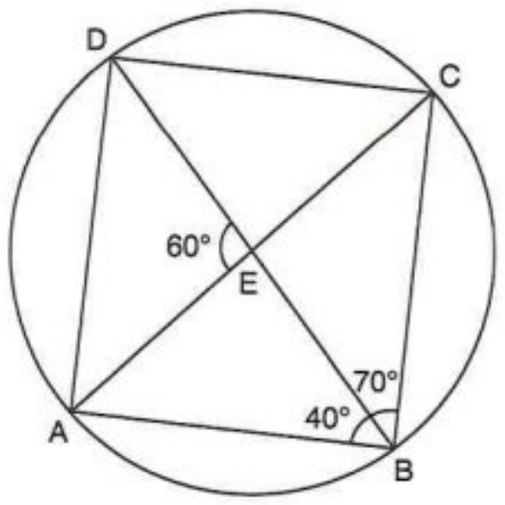
$m(\widehat{CDE}) = 75°$

$m(\widehat{EFA}) = 55°$

$\Rightarrow m(\widehat{CAF}) = ?$

A) 60° B) 55° C) 50° D) 45° E) 40°

10.



$m(\widehat{ABD}) = 40°$

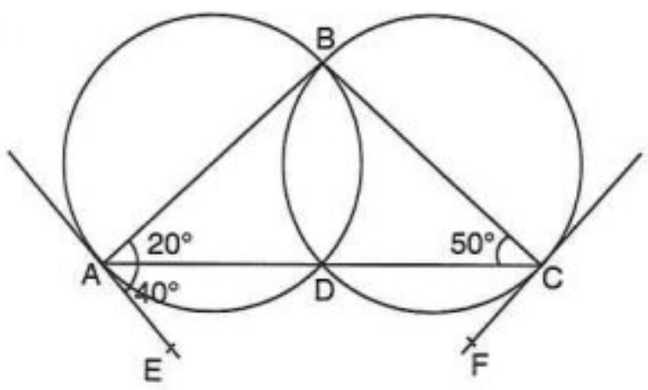
$m(\widehat{DBC}) = 70°$

$m(\widehat{AED}) = 60°$

$\Rightarrow m(\widehat{BCD}) = ?$

A) 80° B) 90° C) 100° D) 110° E) 120°

11.



$m(\widehat{BAC}) = 20°$

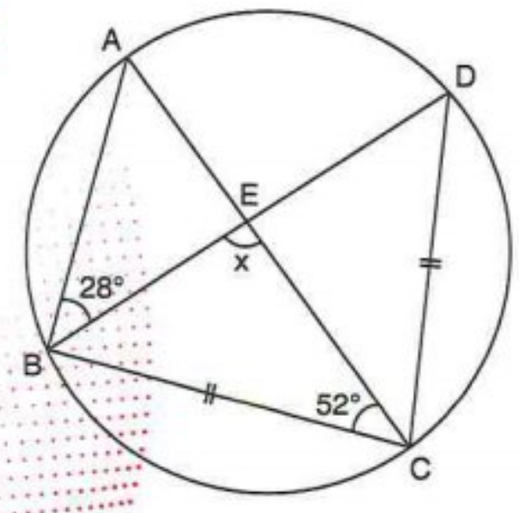
$m(\widehat{CAE}) = 40°$

$m(\widehat{BCA}) = 50°$

$\Rightarrow m(\widehat{ACF}) = ?$

A) 40° B) 50° C) 60° D) 70° E) 80°

12.



$|BC| = |DC|$

$m(\widehat{ABD}) = 28°$

$m(\widehat{BCA}) = 52°$

$\Rightarrow m(\widehat{BEC}) = x = ?$

A) 76° B) 78° C) 80° D) 82° E) 84°

1. C	2. A	3. D	4. D	5. C	6. E
7. C	8. E	9. E	10. B	11. D	12. B

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الممسوحة ضوئيا بـ CamScanner

ÇEMBERDE UZUNLUK

CIRCLE THEOREMS - LENGTH

KONU KAVRAMA TESTİ
Thread Grip Test

ZİHİN HARİTASI
Mind Map

6
TEST
Tests

120
SORU
Questions

NER kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS

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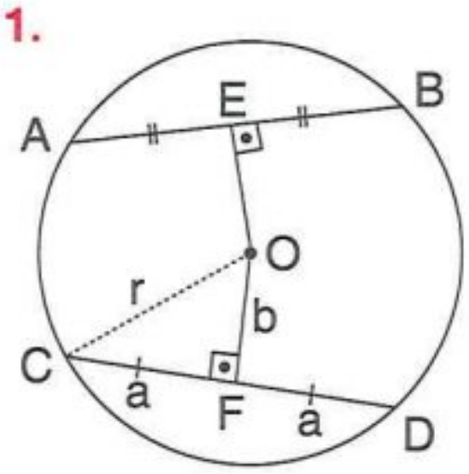
الممسوحة ضوئيا بـ CamScanner

ÇEMBERDE UZUNLUK
CIRCLE THEOREMS – LENGTH

CANER eğitim kurumları

1.



O, merkez

$[OE] \perp [AB]$

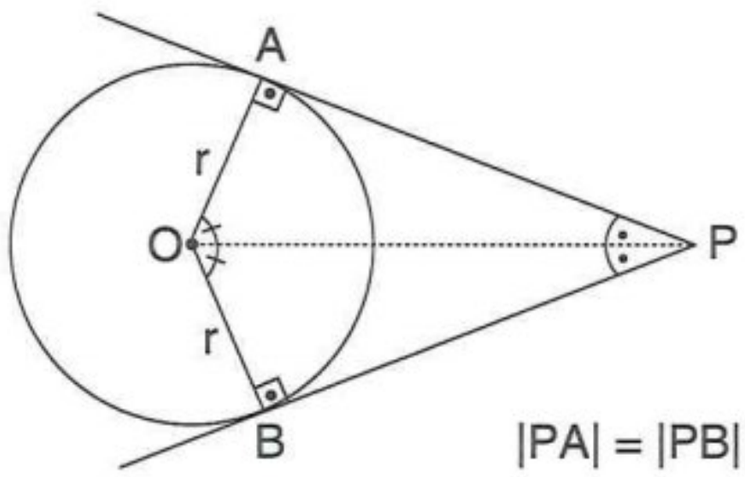
$\Rightarrow |AE| = |EB|$

$|OE| < |OF|$

$\Rightarrow |AB| > |CD|$

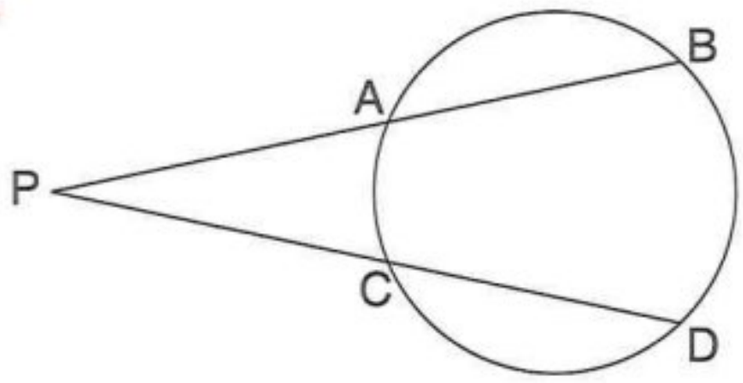
$r^2 = a^2 + b^2$

2.



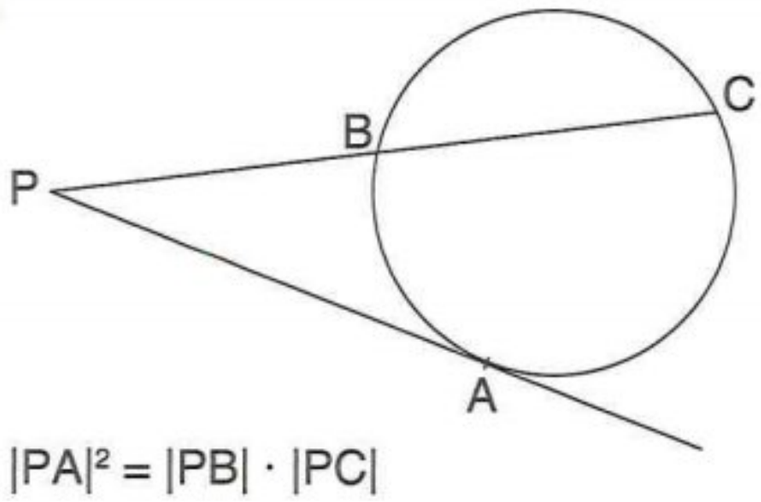
$|PA| = |PB|$

3.



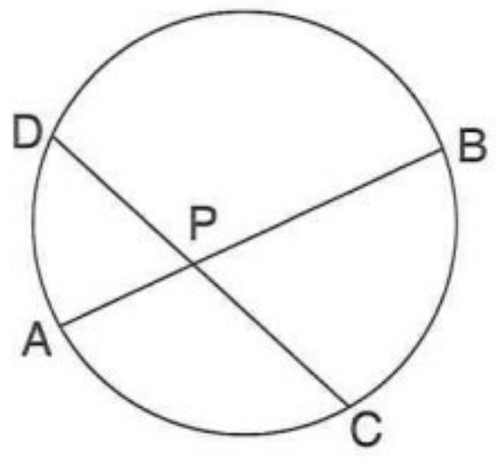
$|PA| \cdot |PB| = |PC| \cdot |PD|$

4.



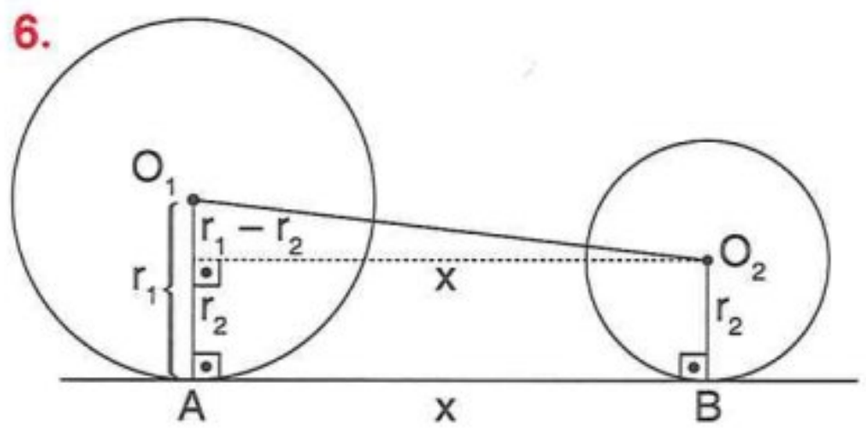
$|PA|^2 = |PB| \cdot |PC|$

5.



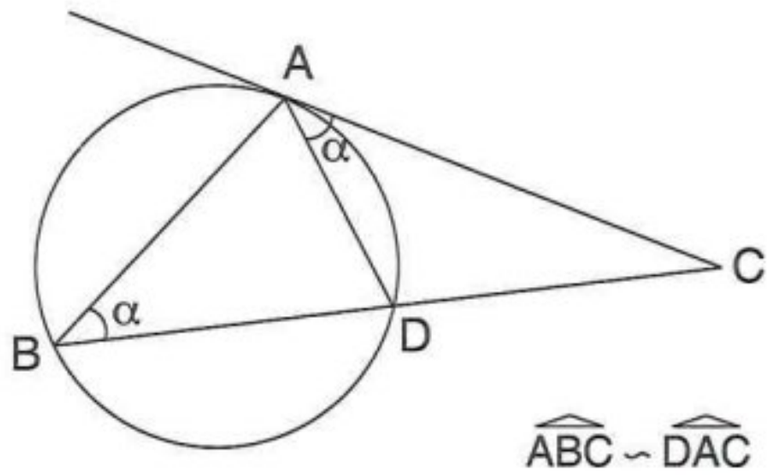
$|PA| \cdot |PB| = |PC| \cdot |PD|$

6.



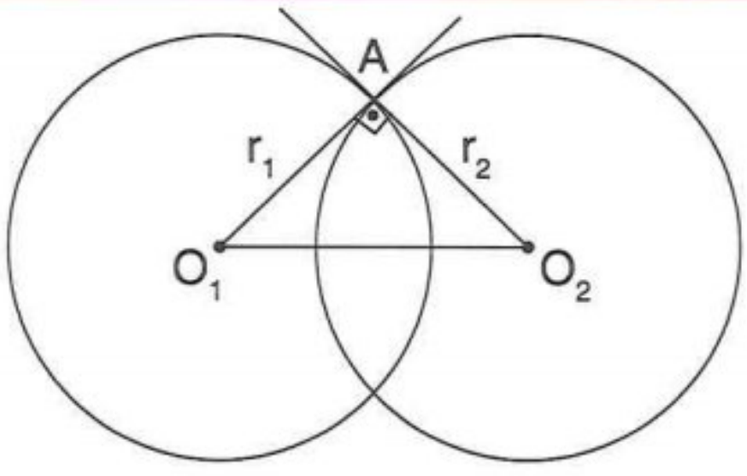
$|O_1O_2|^2 = (r_1 - r_2)^2 + x^2$

7.



$\overset{\frown}{ABC} \sim \overset{\frown}{DAC}$

8.



Dik kesişen çemberler $|O_1O_2|^2 = r_1^2 + r_2^2$

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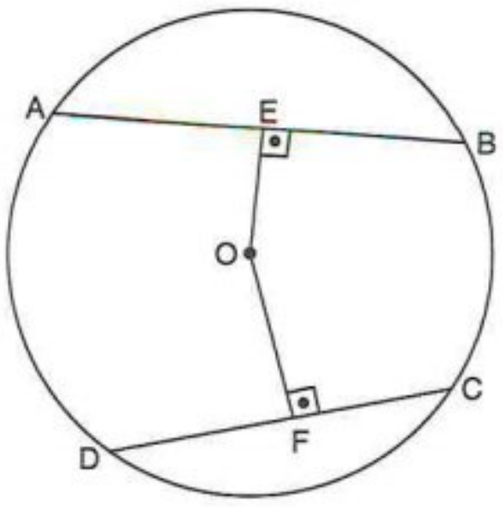
الممسوحة ضوئيا بـ CamScanner

1.



O, merkez *(center)*

$[OE] \perp [AB]$

$[OF] \perp [DC]$

$|OE| = 1$ br

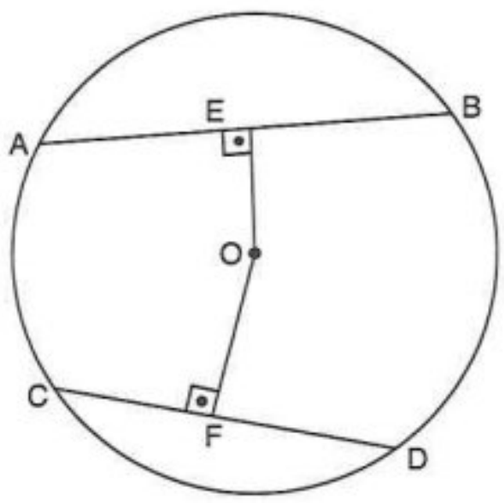
$|OF| = 5$ br

$|AB| = 8\sqrt{3}$ br

⇒ **$|DC| = ?$**

A) $2\sqrt{6}$ B) 7 C) 8 D) $4\sqrt{6}$ E) $8\sqrt{2}$

2.



O, merkez *(center)*

$[OE] \perp [AB]$

$[OF] \perp [DC]$

$|OE| = |OF|$

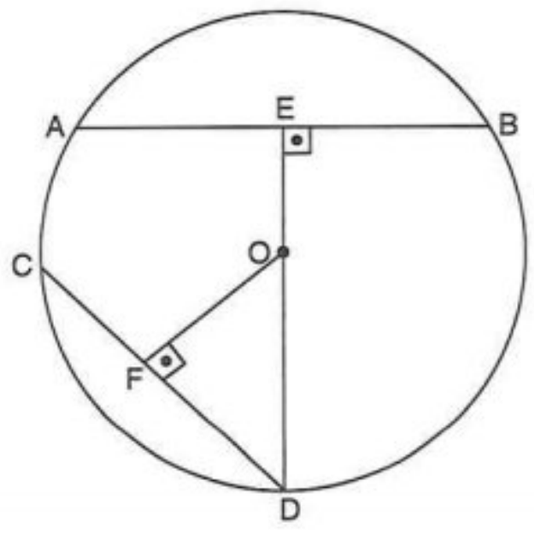
$|AB| = (4x-7)$ br

$|CD| = (2x+3)$ br

⇒ **$|AB| = ?$**

A) 5 B) 7 C) 9 D) 11 E) 13

3.



O, merkez *(center)*

$[OE] \perp [AB]$

$[OF] \perp [DC]$

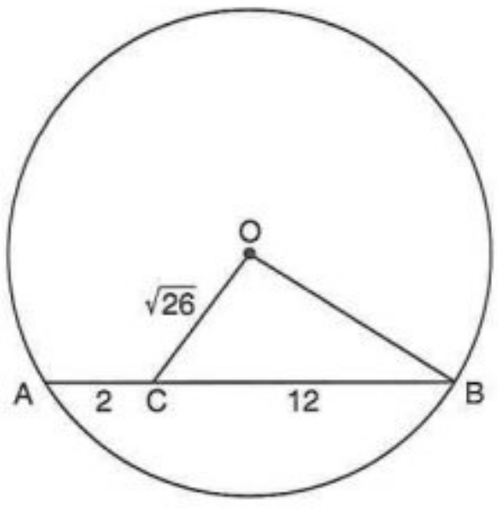
$|OE| = |OF| = 2$ br

$|AB| = 12$ br

⇒ **$|OD| = ?$**

A) $2\sqrt{5}$ B) $4\sqrt{2}$ C) $2\sqrt{10}$ D) $4\sqrt{3}$ E) $2\sqrt{13}$

4.



O, merkez *(center)*

$|AC| = 2$ br

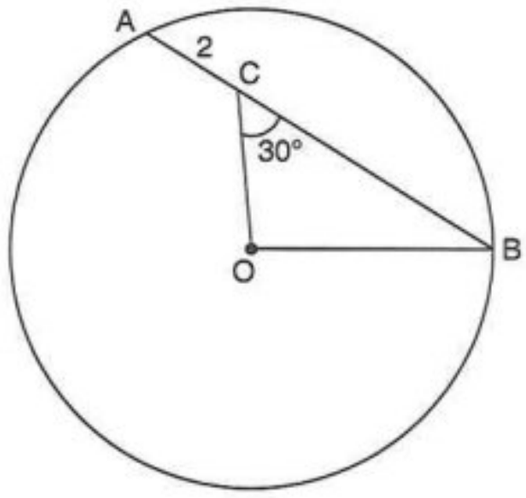
$|OC| = \sqrt{26}$ br

$|BC| = 12$ br

⇒ **$|OB| = ?$**

A) $5\sqrt{2}$ B) $2\sqrt{13}$ C) $3\sqrt{6}$ D) 8 E) $6\sqrt{2}$

5.



O, merkez *(center)*

$m(\widehat{OCB}) = 30°$

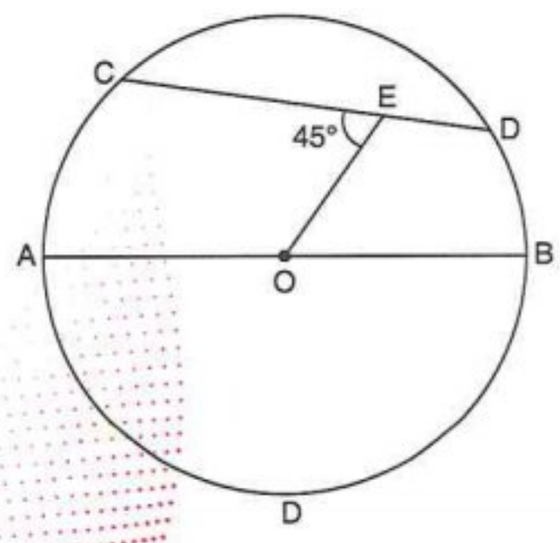
$|AC| = 2$ br

$|BC| = 8$ br

⇒ **$|OB| = ?$**

A) $2\sqrt{6}$ B) $2\sqrt{7}$ C) $4\sqrt{2}$ D) 6 E) $2\sqrt{10}$

6.



O, merkez *(center)*

$m(\widehat{CEO}) = 45°$

$|ED| = 1$ br

$|CE| = 9$ br

⇒ **$|AB| = ?$**

A) 3 B) 6 C) $2\sqrt{41}$ D) $\sqrt{43}$ E) $4\sqrt{3}$

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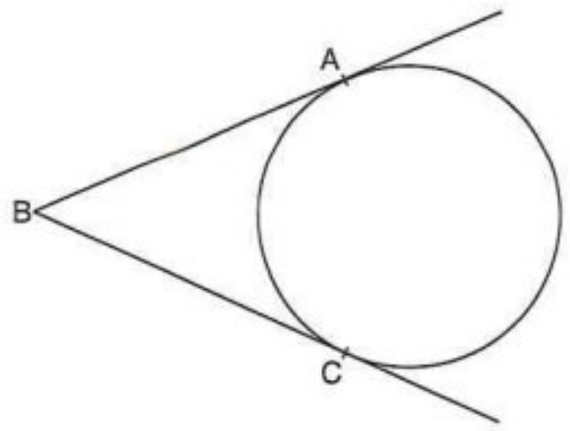
7.



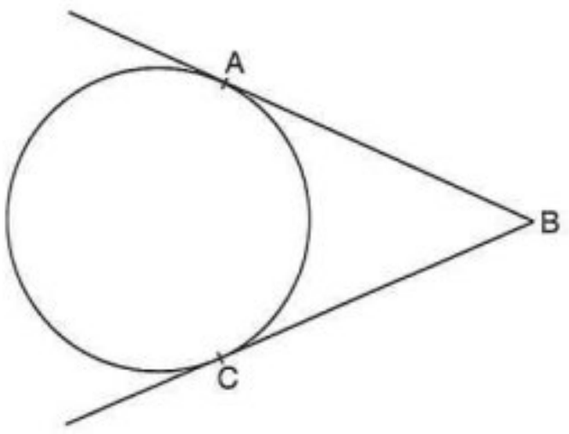
|AB| = 10 br

|BC| = (4x − 2) br

⇒ **x = ?**

A) 2 B) 3 C) 4 D) 5 E) 6

8.



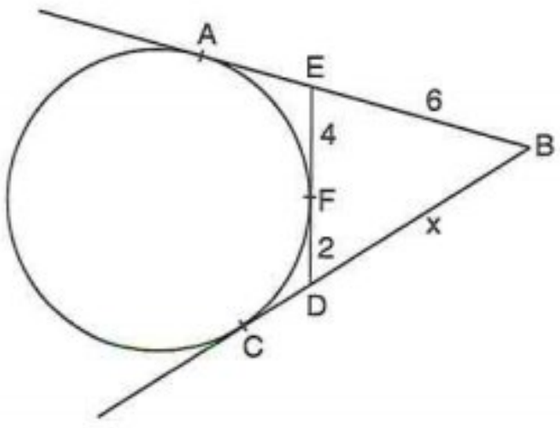
|AB| = (2x − 5) br

|BC| = (x + 7) br

⇒ **|AB| = ?**

A) 12 B) 14 C) 15 D) 17 E) 19

9.



|EB| = 6 br

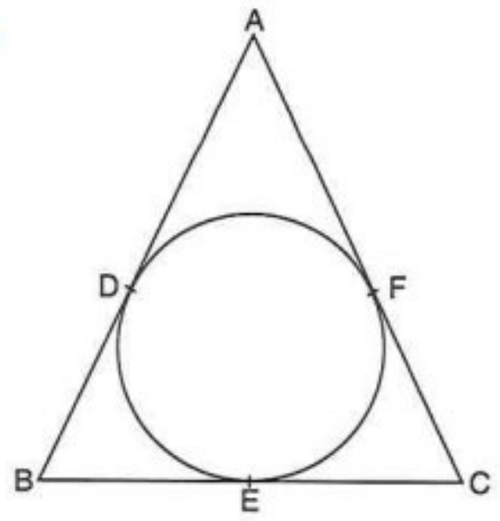
|EF| = 4 br

|FD| = 2 br

⇒ **|DB| = ?**

A) 5 B) 6 C) 7 D) 8 E) 9

10.



|AB| = 6 br

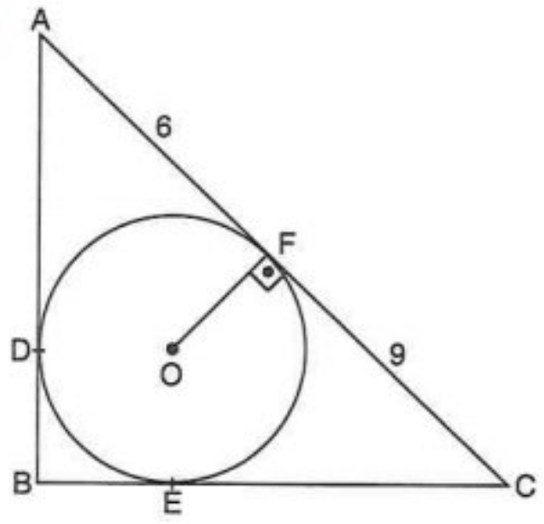
|BC| = 12 br

|AC| = 8 br

⇒ **|AF| = x = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

11.



O, merkez *(center)*

[AB] ⊥ [BC]

[OF] ⊥ [AC]

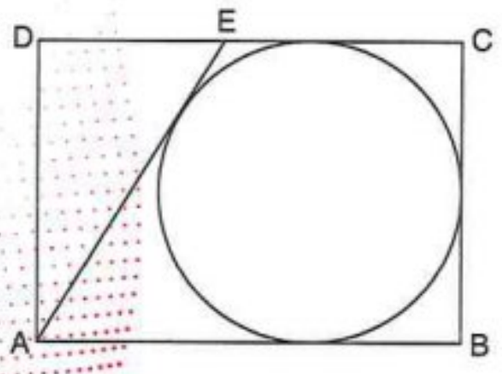
|AF| = 6 br

|FC| = 9 br

⇒ **|OF| = ?**

A) 2 B) 3 C) 4 D) 5 E) 6

12.



ABCD dikdörtgen *(rectangle)*

|DE| = 3 br

|AD| = 4 br

⇒ **|AB| = ?**

A) 5 B) 6 C) 7 D) 8 E) 9

1. D	2. E	3. C	4. A	5. B	6. C
7. B	8. E	9. D	10. A	11. B	12. B

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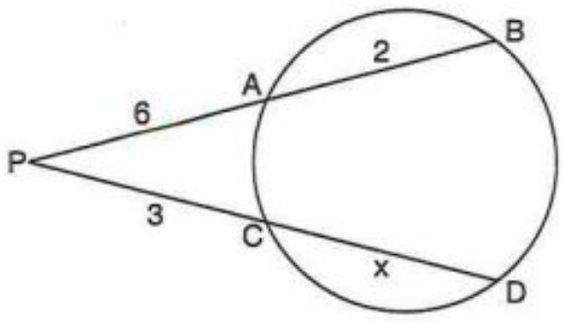
13.

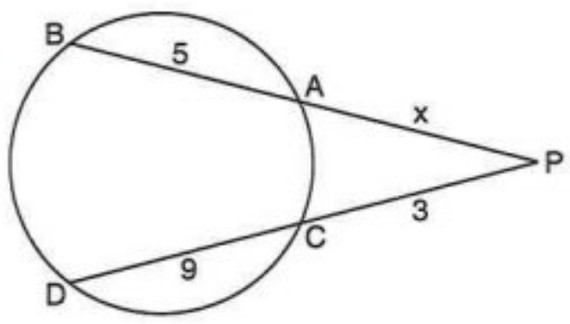


|PA| = 6 br
|PC| = 3 br
|AB| = 2 br

⇒ **|CD| = x = ?**

A) 12 B) 13 C) 14 D) 15 E) 16

14.

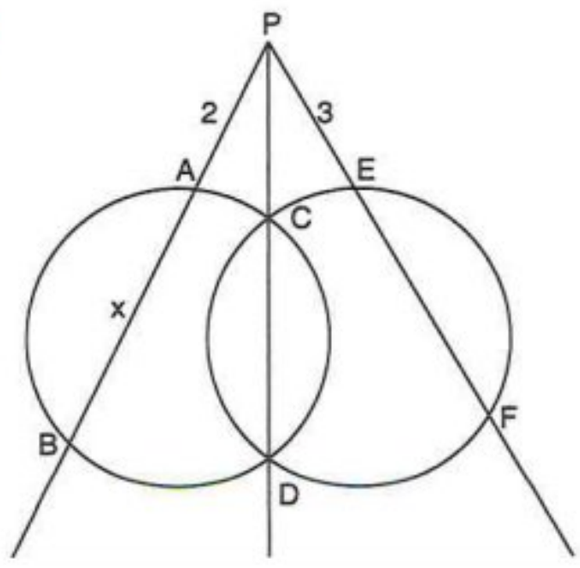


|AB| = 5 br
|PC| = 3 br
|CD| = 9 br

⇒ **|PA| = x = ?**

A) 2 B) 4 C) 6 D) 8 E) 9

15.

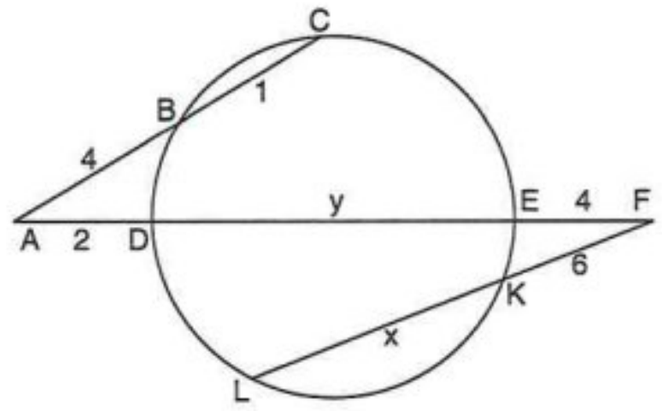


|AP| = 2 br
|PE| = 3 br
|EF| = 5 br

⇒ **|AB| = x = ?**

A) 4 B) 6 C) 8 D) 10 E) 12

16.

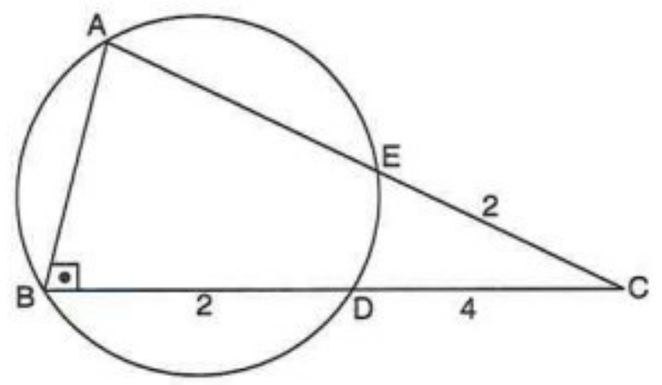


|BC| = 1 br
|AD| = 2 br
|AB| = |EF| = 4 br
|FK| = 6 br
|LK| = x br
|ED| = y br

⇒ **x + y = ?**

A) 8 B) 9 C) 8 D) 10 E) 12

17.

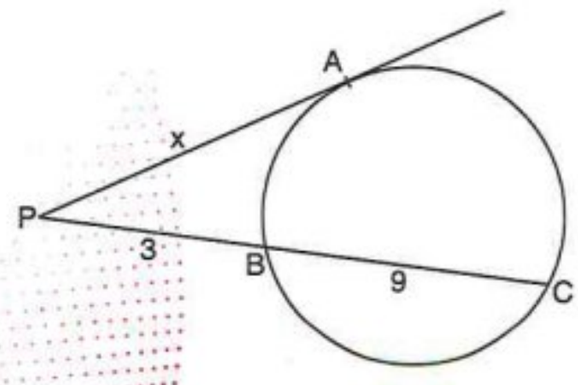


r, yarıçap (*radius*)
[AB] ⊥ [BC]
|EC| = |BD| = 2 br
|DC| = 4 br

⇒ **r = ?**

A) $2\sqrt{3}$ B) $2\sqrt{6}$ C) $2\sqrt{7}$ D) $4\sqrt{6}$ E) $4\sqrt{7}$

18.



|PB| = 3 br
|BC| = 9 br

⇒ **|PA| = x = ?**

A) 4 B) 5 C) 6 D) 7 E) 8

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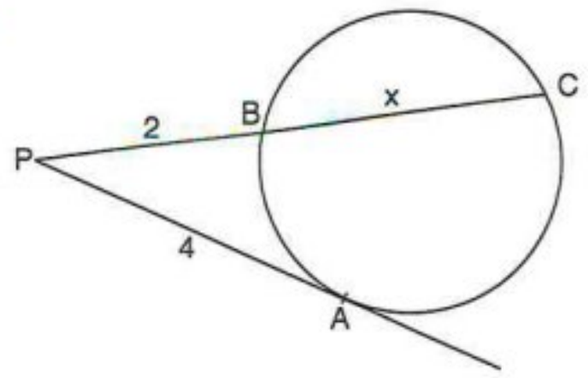
19.



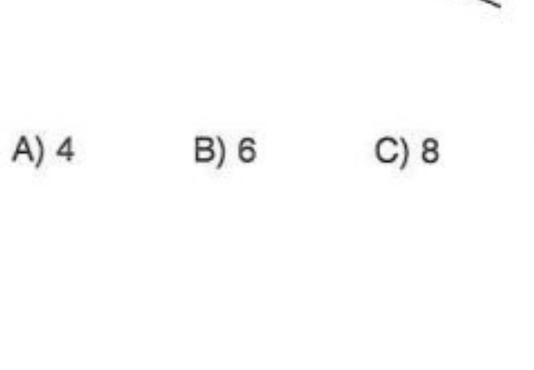
|PB| = 2 br

|PA| = 4 br

⇒ **|BC| = x = ?**

A) 4 B) 6 C) 8 D) 10 E) 12

20.



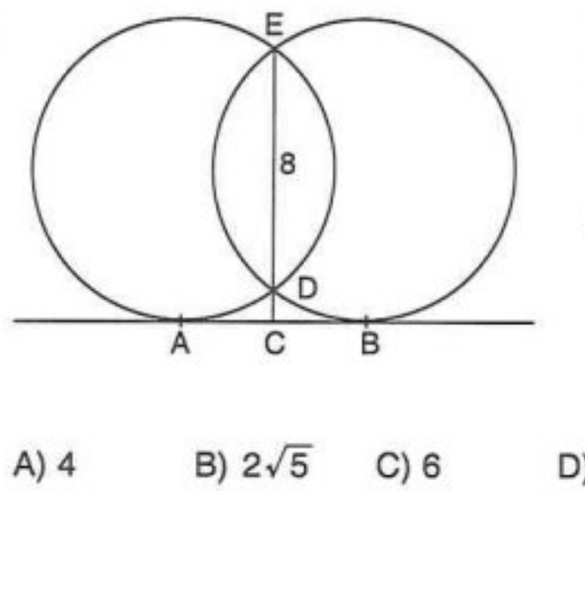
|ED| = 8 br

|DC| = 2 br

⇒ **|AB| = ?**

A) 4 B) $2\sqrt{5}$ C) 6 D) 8 E) $4\sqrt{5}$

21.



|PA| = $2\sqrt{7}$ br

|PB| = 4 br

|DE| = 12 br

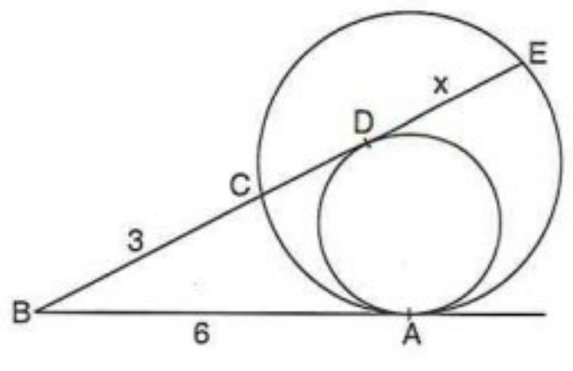
|PD| = x br

|BC| = y br

⇒ **x + y = ?**

A) 5 B) 6 C) 7 D) 8 E) 9

22.



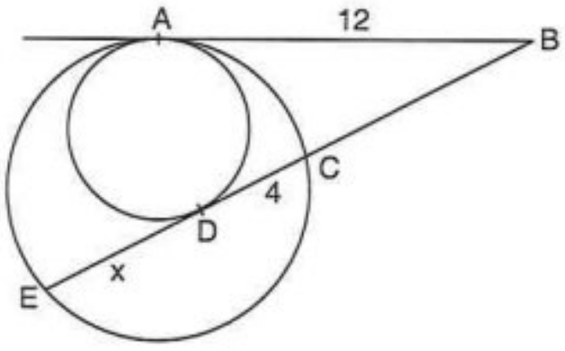
|AB| = 6 br

|BC| = 3 br

⇒ **|DE| = x = ?**

A) 4 B) 6 C) 8 D) 9 E) 12

23.



|AB| = 12 br

|DC| = 4 br

⇒ **|ED| = x = ?**

A) 6 B) 8 C) 10 D) 12 E) 18

24.

O, merkez *(center)*

[AC] ⊥ [CD]

|BC| = 2 br

|CD| = 6 br

⇒ **|OA| = ?**

A) 8 B) 9 C) 10 D) 12 E) 16

13. B	14. B	15. D	16. D	17.C	18. C
19. B	20. E	21. A	22. B	23. A	24. C

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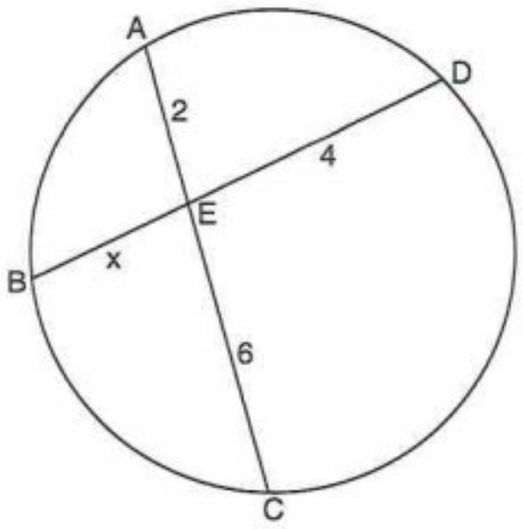
25.



$|AE| = 2$ br

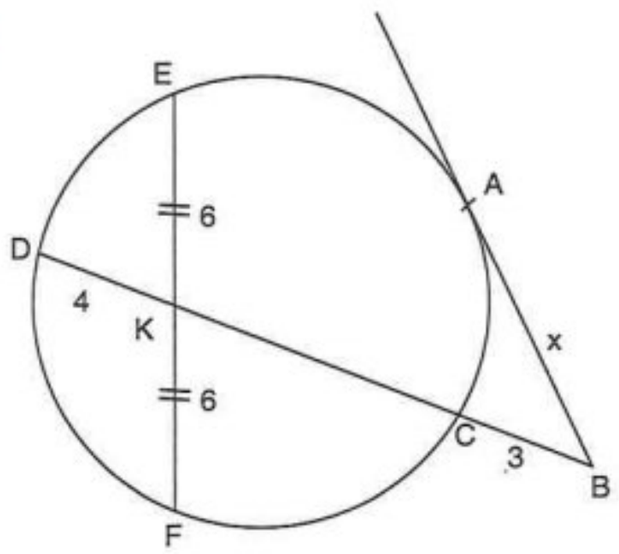
$|ED| = 4$ br

$|EC| = 6$ br

$\Rightarrow |BE| = x = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

26.



$|EK| = |KF| = 6$ br

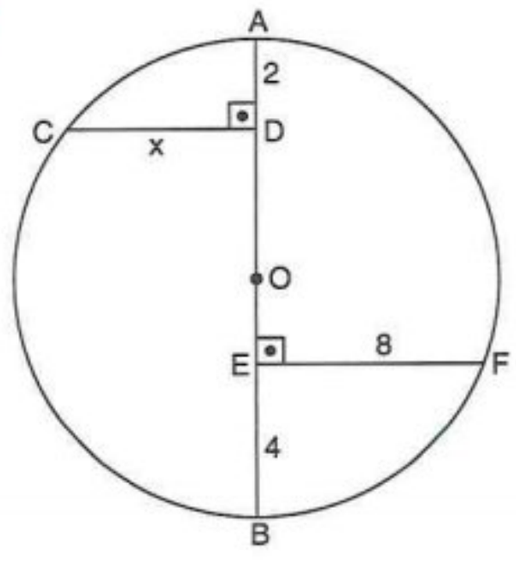
$|DK| = 4$ br

$|BC| = 3$ br

$\Rightarrow |AB| = x = ?$

A) $4\sqrt{2}$ B) 6 C) $2\sqrt{5}$ D) $4\sqrt{3}$ E) 8

27.



O, merkez *(center)*

$[CD] \perp [AB]$

$[EF] \perp [AB]$

$|EF| = 8$ br

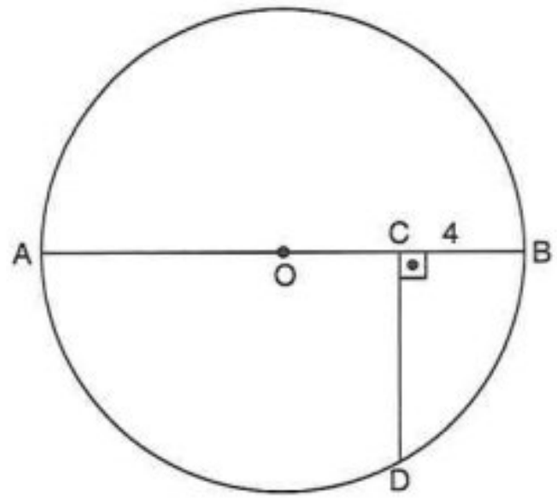
$|EB| = 4$ br

$|AD| = 2$ br

$\Rightarrow |CD| = x = ?$

A) $4\sqrt{2}$ B) 6 C) $\sqrt{38}$ D) $2\sqrt{5}$ E) $8\sqrt{5}$

28.



O, merkez *(center)*

$[DC] \perp [AB]$

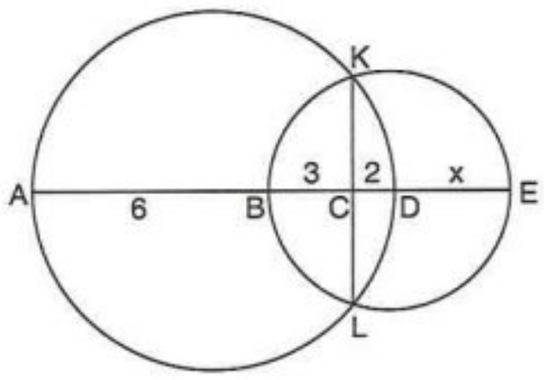
$|BC| = 4$ br

$|CD| = 4\sqrt{3}$ br

$\Rightarrow |OA| = ?$

A) 6 B) 8 C) 9 D) 12 E) 16

29.



$|AB| = 6$ br

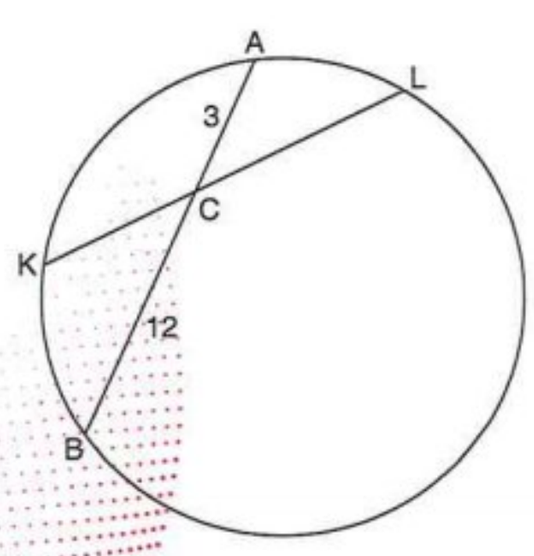
$|BC| = 3$ br

$|CD| = 2$ br

$\Rightarrow |DE| = x = ?$

A) 3 B) 4 C) 5 D) 6 E) 8

30.



$|AC| = 3$ br

$|CB| = 12$ br

$\Rightarrow \min(|KL|) = ?$

A) 6 B) 8 C) 10 D) 12 E) 15

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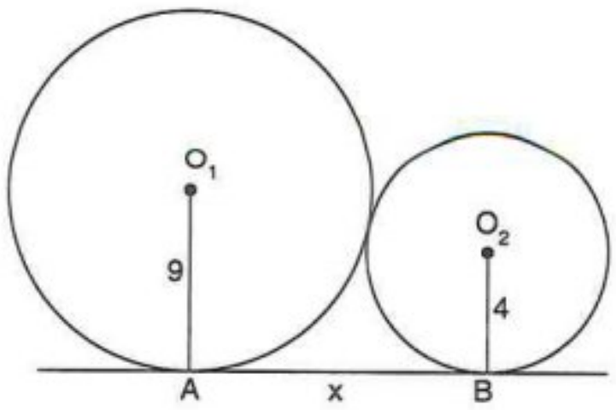
31.



O_1 ve (*and*) O_2, merkez *(center)*

$|O_1A| = 9$ br

$|O_2B| = 4$ br

$\Rightarrow |AB| = x = ?$

A) 10 B) 11 C) 12 D) 13 E) 14

32.

O_1 ve (*and*) O_2, merkez *(center)*

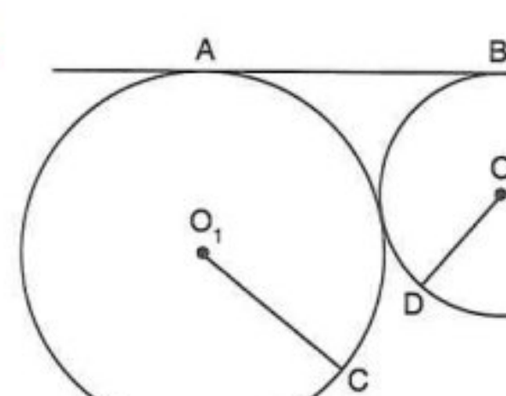
$|O_1C| = 6$ br

$|O_2D| = 4$ br

$\Rightarrow |AB| = ?$

A) $4\sqrt{3}$ B) $6\sqrt{2}$ C) 9 D) $4\sqrt{6}$ E) 10

33.



ABCD dikdörtgen *(rectangle)*

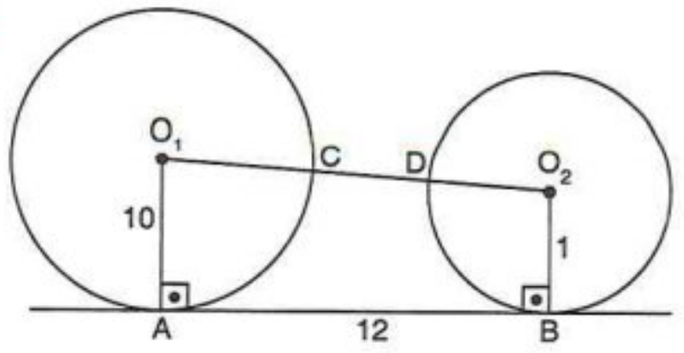
A ve (*and*) C, merkez *(center)*

$|BK| = |EB| = 3$ br

$\Rightarrow A(ABCD) = ?$

A) 81 B) 108 C) 120 D) 132 E) 144

34.



O_1 ve (*and*) O_2, merkez *(center)*

$|AB| = 12$ br

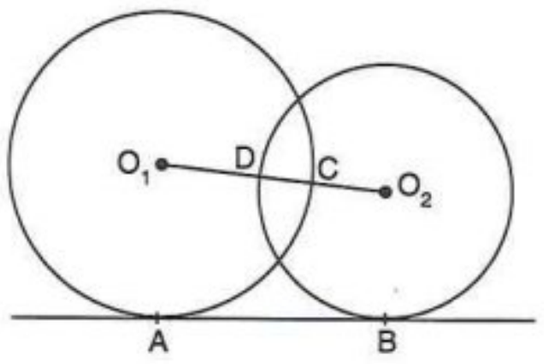
$|O_1A| = 10$ br

$|O_2B| = 1$ br

$\Rightarrow |CD| = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

35.



O_1 ve (*and*) O_2, merkez *(center)*

$|AB| = 4\sqrt{3}$ br

$|O_1C| = 5$ br

$|O_2D| = 4$ br

$\Rightarrow |CD| = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

36.

O_1 ve (*and*) O_2, merkez *(center)*

$|AB| = 12$ br

$|O_1C| = 3$ br

$|O_2B| = 2$ br

$\Rightarrow |O_1O_2| = ?$

A) 13 B) 14 C) 15 D) 16 E) 17

25. B	26. D	27. B	28. B	29. B	30. D
31. C	32. D	33. B	34. C	35. B	36. A

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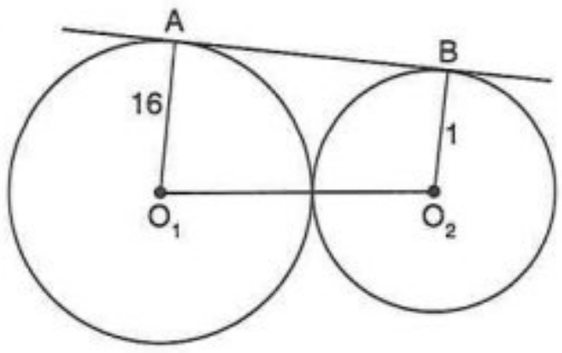
37.



O_1 ve (*and*) O_2, merkez (*center*)

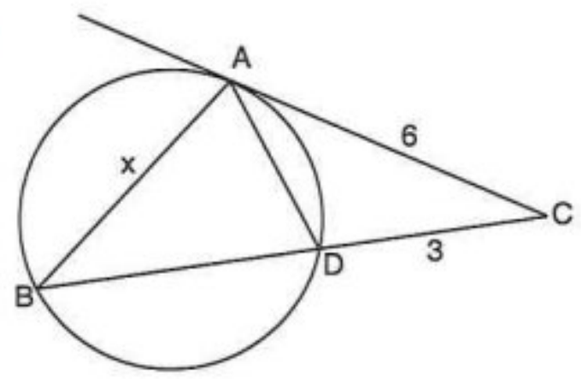
$|AO_1| = 16$ br

$|BO_2| = 1$ br

$\Rightarrow$ **$A(O_1O_2BA) = ?$**

A) 56 B) 60 C) 64 D) 68 E) 72

38.



$|DC| = 3$ br

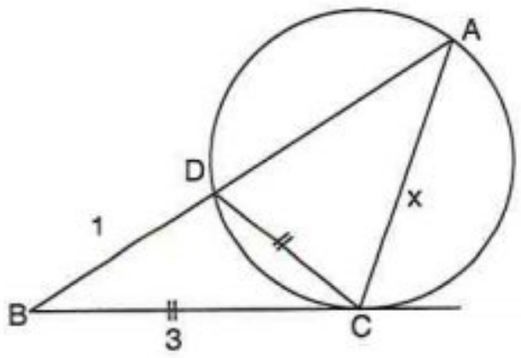
$|AC| = 6$ br

$|AD| = 8$ br

$\Rightarrow$ **$|AB| = x = ?$**

A) 4 B) 8 C) 10 D) 12 E) 16

39.



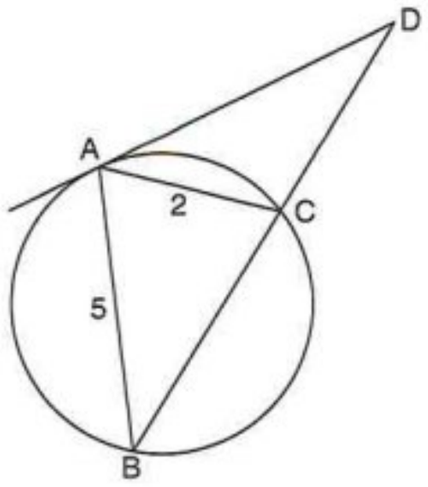
$|DC| = |BC| = 3$ br

$|BD| = 1$ br

$\Rightarrow$ **$|AC| = x = ?$**

A) 6 B) 7 C) 8 D) 9 E) 10

40.



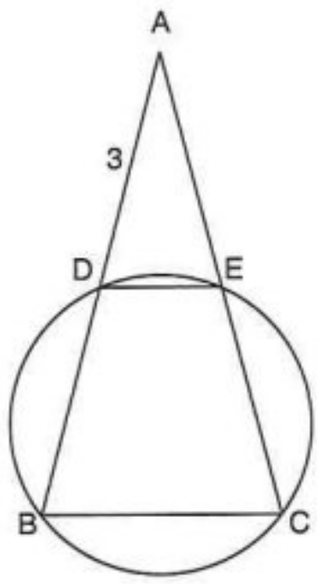
$|AC| = 2$ br

$|AB| = 5$ br

$\Rightarrow \dfrac{|BC|}{|BD|} = ?$

A) $\frac{2}{5}$ B) $\frac{3}{5}$ C) $\frac{4}{25}$ D) $\frac{17}{25}$ E) $\frac{21}{25}$

41.



$|AD| = 3$ br

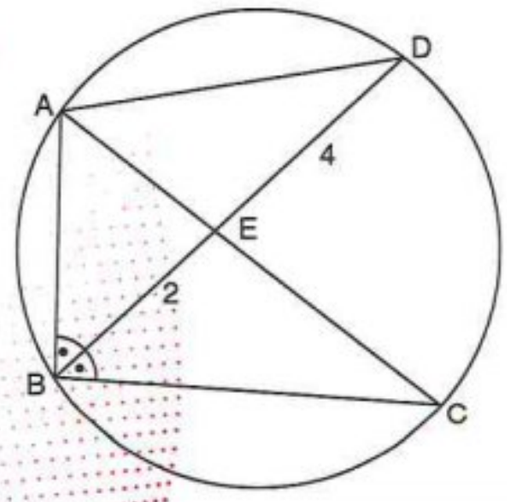
$|BC| = 8$ br

$|AC| = 12$ br

$\Rightarrow$ **$|DE| = ?$**

A) 1 B) 2 C) 3 D) 4 E) 6

42.



$m(A\widehat{B}D) = m(D\widehat{B}C)$

$|BE| = 2$ br

$|ED| = 4$ br

$\Rightarrow$ **$|AD| = ?$**

A) $2\sqrt{3}$ B) 4 C) $2\sqrt{5}$ D) $2\sqrt{6}$ E) $2\sqrt{7}$

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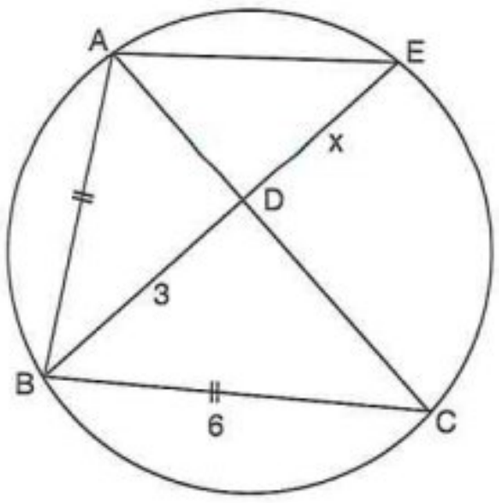
43.



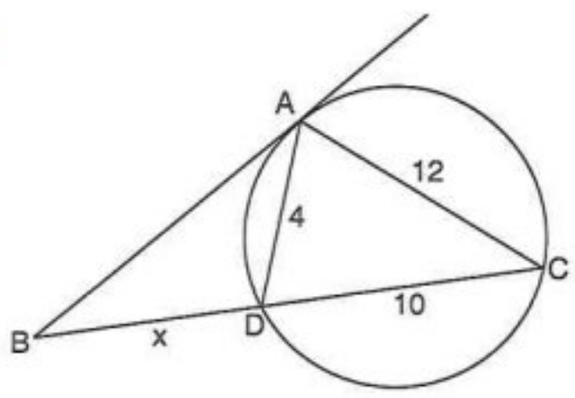
$|AB| = |BC| = 6$ br

$|BD| = 3$ br

$\Rightarrow |DE| = x = ?$

A) 4 B) 6 C) 8 D) 9 E) 12

44.



$|AD| = 4$ br

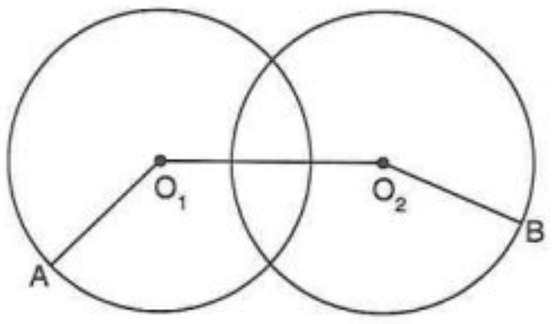
$|DC| = 10$ br

$|AC| = 12$ br

$\Rightarrow |BD| = x = ?$

A) 5 B) $\frac{5}{4}$ C) $\frac{5}{3}$ D) $\frac{5}{2}$ E) 1

45.



O_1 ve O_2, merkezli çemberler dik kesişiyor

Circles with O_1 and O_2 center intersect perpendicularly

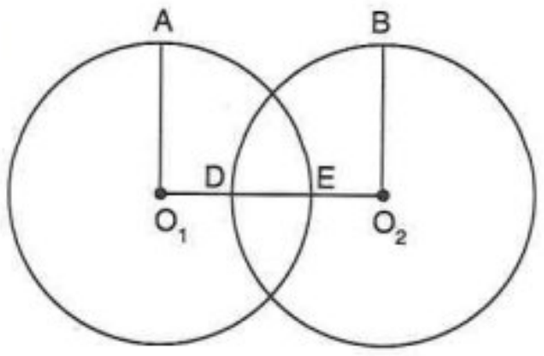
$|O_1A| = 4$ br

$|O_2B| = 8$ br

$\Rightarrow |O_1O_2| = ?$

A) $4\sqrt{2}$ B) $4\sqrt{3}$ C) 8 D) $4\sqrt{5}$ E) $4\sqrt{6}$

46.



O_1 ve O_2, merkezli çemberler dik kesişiyor

Circles with O_1 and O_2 center intersect perpendicularly

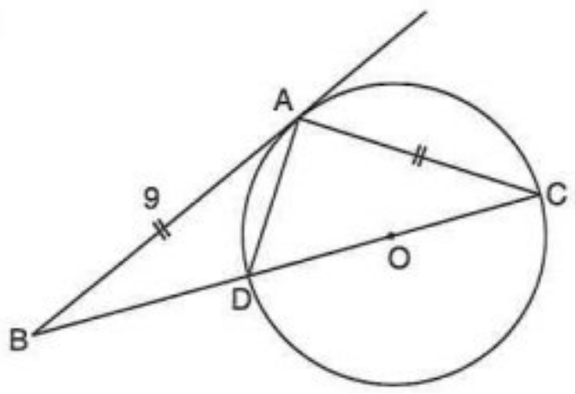
$|O_1A| = 9$ br

$|O_2B| = 12$ br

$\Rightarrow |DE| = ?$

A) 4 B) 5 C) 6 D) 7 E) 8

47.



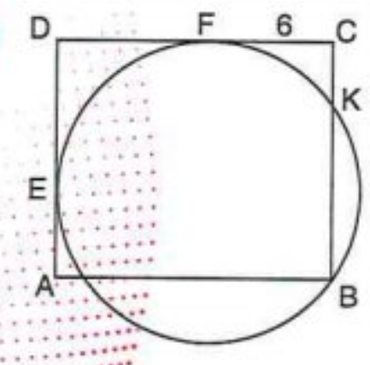
O, merkez (*center*)

$|AB| = |AC| = 9$ br

$\Rightarrow |OC| = ?$

A) 3 B) $3\sqrt{3}$ C) 6 D) $6\sqrt{3}$ E) 9

48.



ABCD dikdörtgen (*rectangle*)

$|FC| = 6$ br

$|CK| = 4$ br

$\Rightarrow$ **Ç(ABCD) = ?**

A) 43 B) 44 C) 45 D) 46 E) 47

37. D	38. E	39. D	40. E	41. B	42. D
43. D	44. B	45. D	46. C	47. B	48. A

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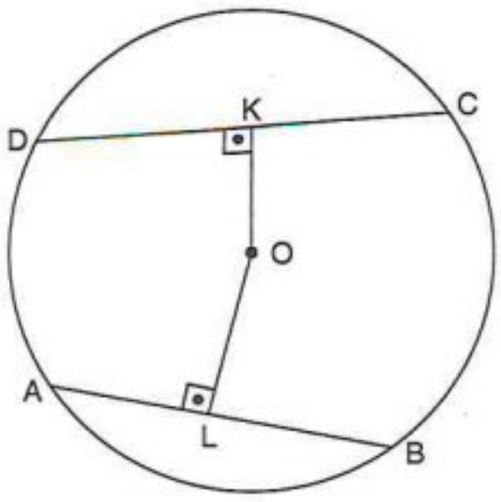
1.



O, merkez (*center*)

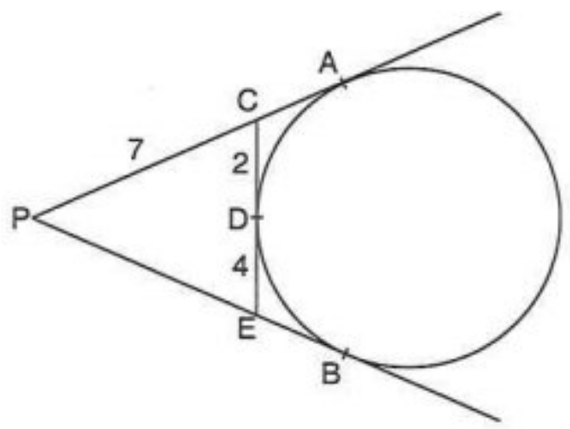
$|OL| = |AB| = 8$ br

$|OK| = 4$ br

⇒ **$|DC| = ?$**

A) 8 B) 12 C) 16 D) 20 E) 24

2.



$|PC| = 7$ br

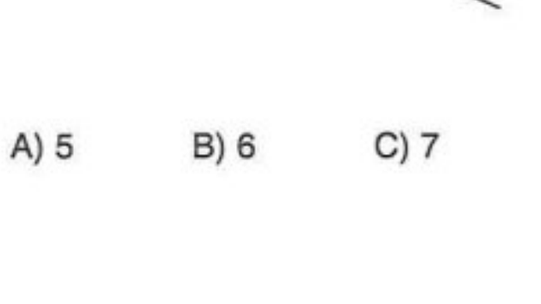
$|DE| = 4$ br

$|CD| = 2$ br

⇒ **$|PE| = ?$**

A) 5 B) 6 C) 7 D) 8 E) 9

3.



O, merkez (*center*)

$[CD] \,/\!/\, [AB]$

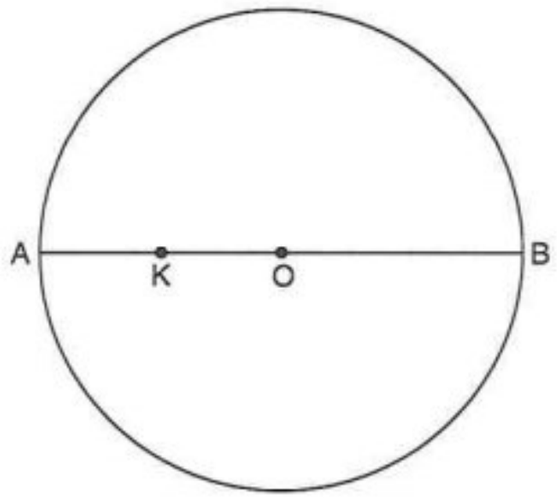
$|AC| = 6$ br

$|AD| = 8$ br

⇒ **$|OA| = ?$**

A) 3 B) 4 C) 5 D) 6 E) 8

4.



O, merkez (*center*)

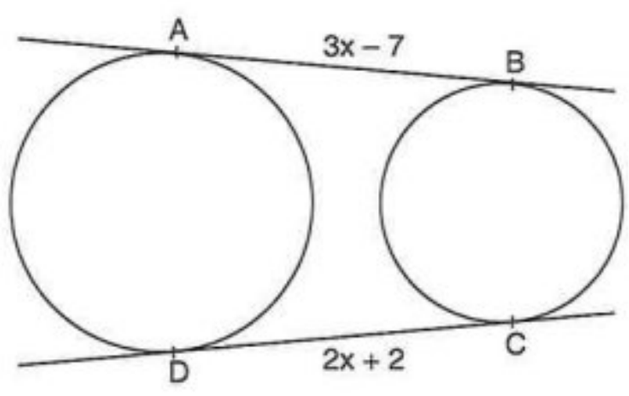
$|OK| = 6$ br

$|OB| = 10$ br

K noktasından geçen en kısa kiriş ve en uzun kirişin toplamı kaçtır?

A) 32 B) 33 C) 34 D) 35 E) 36

5.



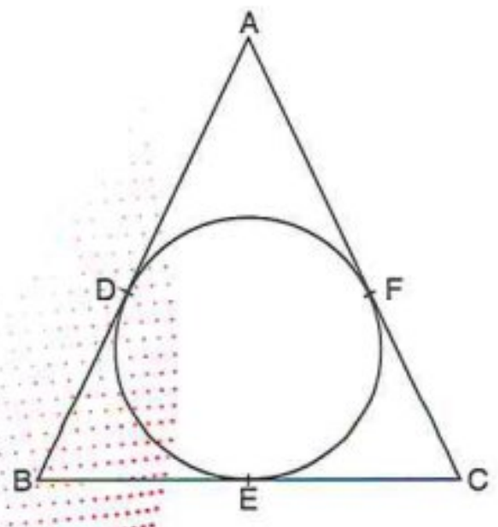
$|AB| = (3x - 7)$ br

$|DC| = (2x + 2)$ br

⇒ **$x = ?$**

A) 7 B) 8 C) 9 D) 10 E) 11

6.



$|BC| = 12$ br

$|AB| = 11$ br

$|AC| = 9$ br

⇒ **$|EC| = ?$**

A) 4 B) 5 C) 6 D) 7 E) 8

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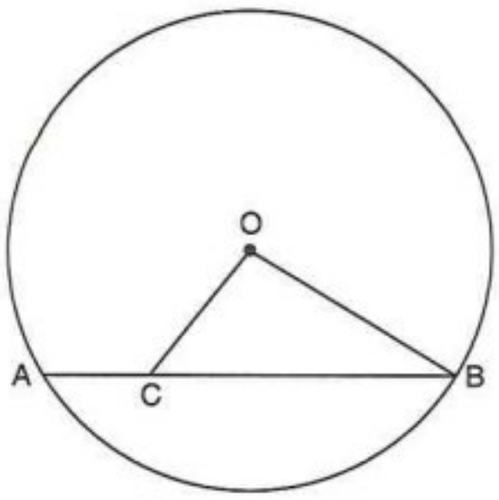
7.



O, merkez (*center*)

$|AC| = 4$ br

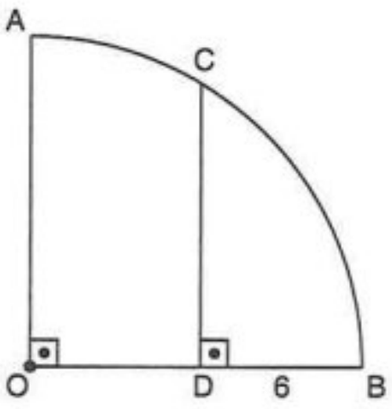
$|BC| = 12$ br

$|OC| = 2\sqrt{13}$ br

⇒ $|OB| = ?$

A) 8 B) 9 C) 10 D) 12 E) 15

8.



O, merkez (*center*)

$[AO] \perp [OB]$

$[CD] \perp [OB]$

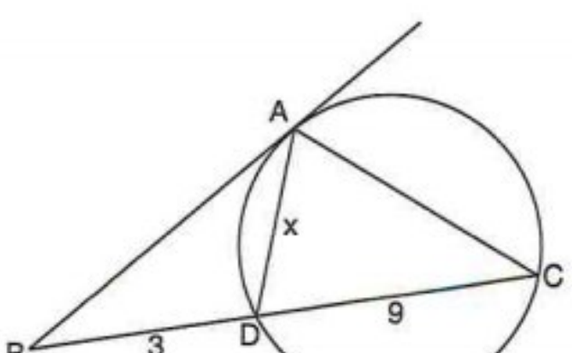
$|DB| = 6$ br

$|CD| = 12$ br

⇒ $|OA| = ?$

A) 13 B) 14 C) 15 D) 16 E) 17

9.



$|BD| = 3$ br

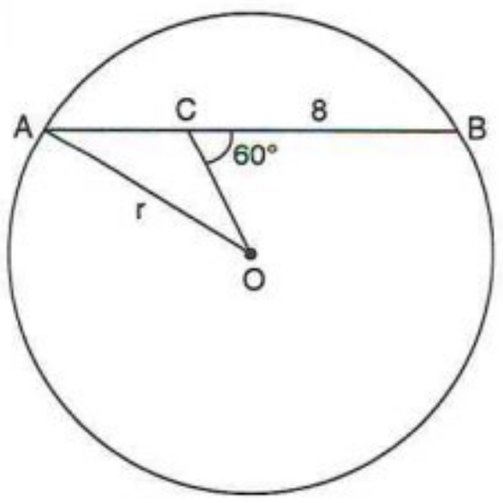
$|DC| = 9$ br

$|AC| = 15$ br

⇒ $|AD| = x = ?$

A) 5 B) 6 C) 7,5 D) 8 E) 9,5

10.



O, merkez (*center*)

$m(\widehat{OCB}) = 60°$

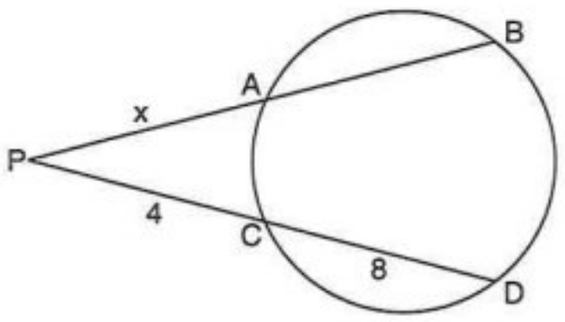
$|BC| = 8$ br

$|AC| = 4$ br

⇒ $|OA| = r = ?$

A) $4\sqrt{3}$ B) 8 C) $6\sqrt{3}$ D) 9 E) 10

11.



$|PC| = 4$ br

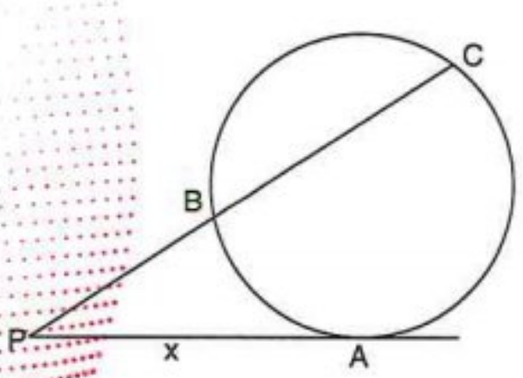
$|CD| = 8$ br

$|AB| = 13$ br

⇒ $|PA| = x = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

12.



$2|PB| = |BC| = 12$ br

⇒ $|PA| = x = ?$

A) 6 B) $6\sqrt{2}$ C) $6\sqrt{3}$ D) 12 E) $6\sqrt{5}$

1. C	2. A	3. C	4. E	5. C	6. B
7. C	8. C	9. C	10. A	11. B	12. C

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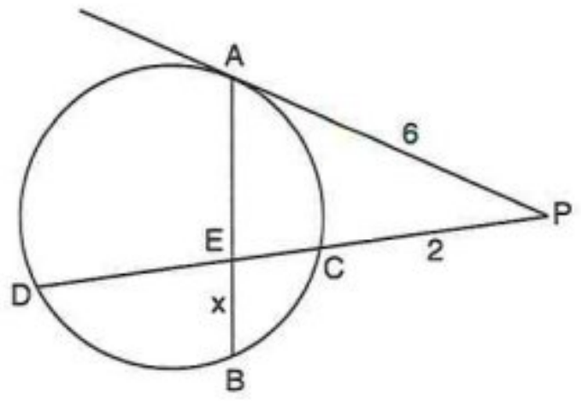
1.

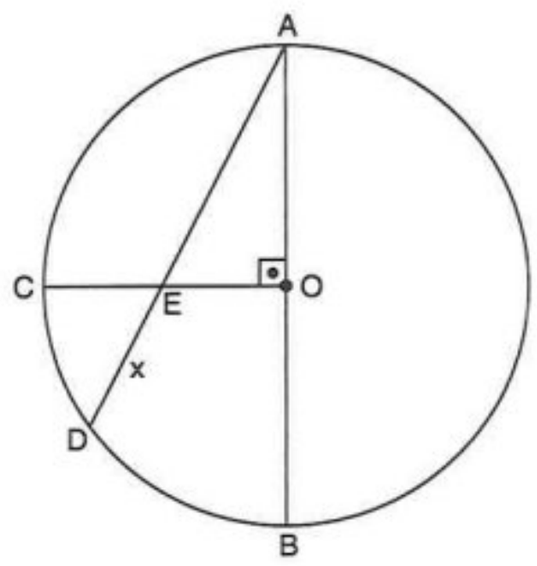


|AP| = 6 br
|PC| = 2 br
|AE| = 8 br
|DE| = 3|EC|

⇒ **|EB| = x = ?**

A) 4 B) 5 C) 6 D) 8 E) 9

2.

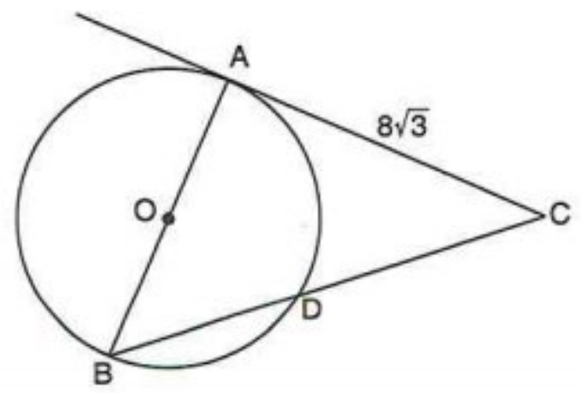


O, merkez (*center*)
$m(\widehat{COA}) = 90°$
|OB| = 6 br
|OE| = 3 br

⇒ **|ED| = x = ?**

A) $\frac{3\sqrt{5}}{2}$ B) $\frac{3\sqrt{5}}{5}$ C) $3\sqrt{5}$ D) $\frac{9\sqrt{5}}{5}$ E) $9\sqrt{5}$

3.

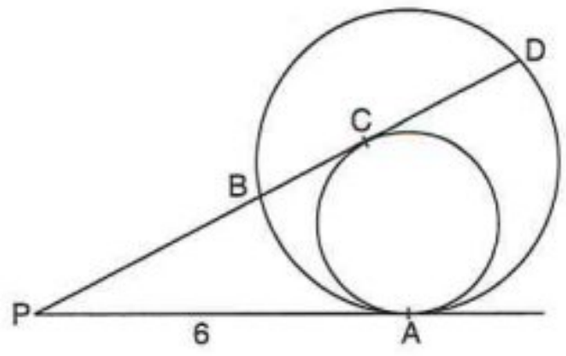


O, merkez (*center*)
|AC| = 8√3 br
|DB| = 4 br

⇒ **|OB| = ?**

A) 4 B) 6 C) 8 D) 10 E) 12

4.

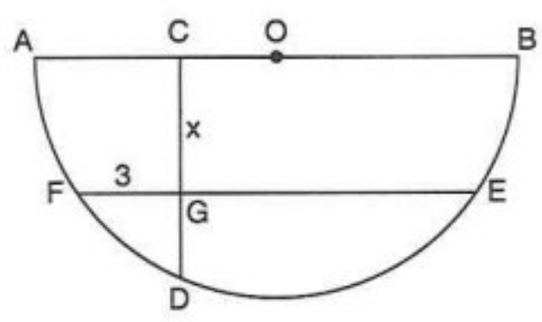


|PA| = 6 br
|PB| = 4 br

⇒ **|CD| = ?**

A) 1 B) 2 C) 3 D) 4 E) 6

5.

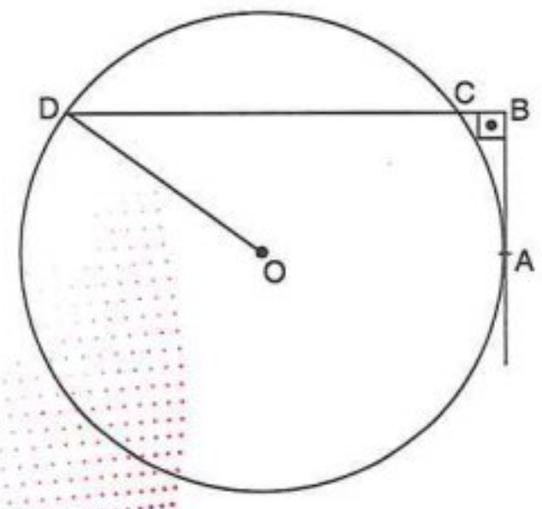


O, merkez (*center*)
$m(\widehat{ACD}) = 90°$
|GD| = 2 br
|FG| = 3 br
|GE| = 8 br

⇒ **|CG| = x = ?**

A) 2 B) 3 C) 4 D) 5 E) 6

6.



O, merkez (*center*)
[DB] ⊥ [BA]
|BC| = 2 br
|DC| = 14 br

⇒ **|OD| = ?**

A) 5 B) 6 C) 7 D) 8 E) 9

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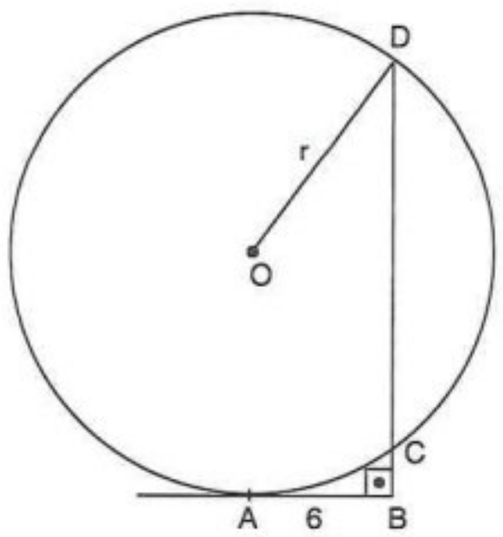
7.



O, merkez (*center*)

$[AB] \perp [BD]$

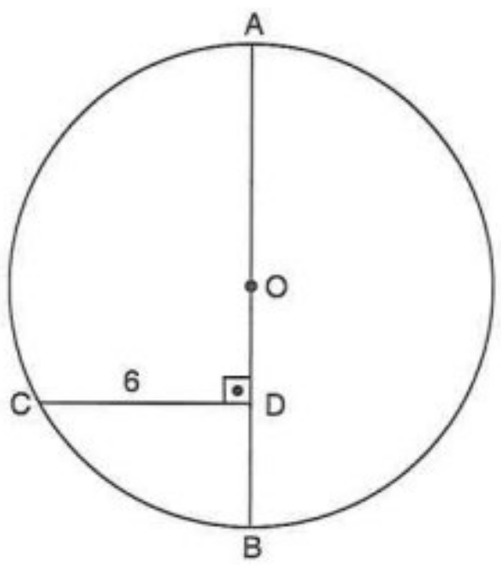
$|AB| = 6$ br

$|BC| = 2$ br

$\Rightarrow |OD| = r = ?$

A) 8 B) 9 C) 10 D) 12 E) 13

8.



O, merkez (*center*)

$[CD] \perp [AB]$

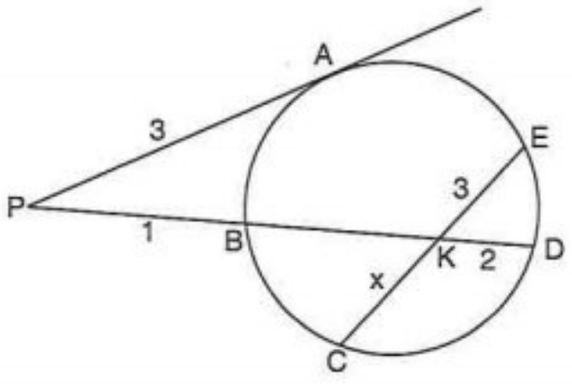
$|CD| = 6$ br

$|DB| = 4$ br

$\Rightarrow |OD| = ?$

A) 1 B) $\frac{3}{2}$ C) 2 D) $\frac{5}{2}$ E) 3

9.



$|PA| = |EK| = 3$ br

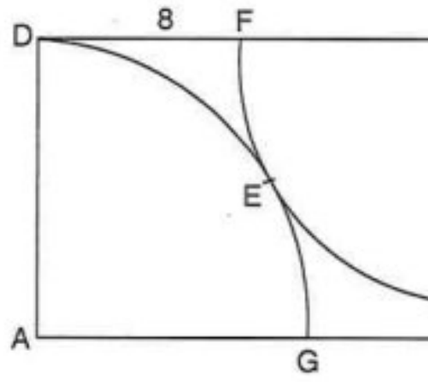
$|KD| = 2$ br

$|PB| = 1$ br

$\Rightarrow |CK| = x = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

10.



ABCD dikdörtgen (*rectangle*)

A, C merkez (*center*)

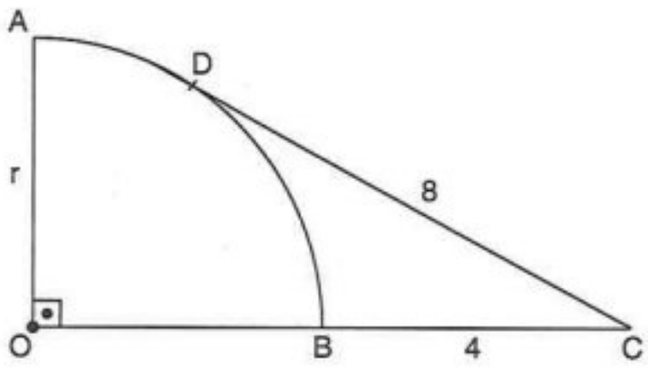
$|DF| = 8$ br

$|AD| = 12$ br

$\Rightarrow |FC| = x = ?$

A) 6 B) 8 C) 9 D) 10 E) 12

11.



O, merkez (*center*)

$[AO] \perp [OC]$

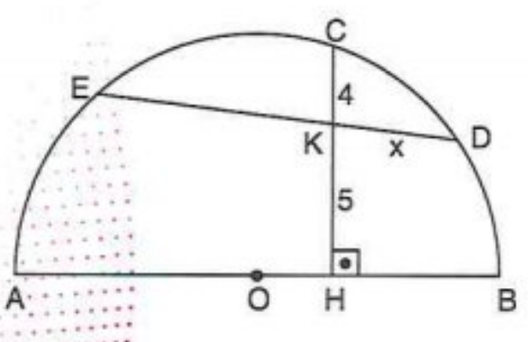
$|DC| = 8$ br

$|BC| = 4$ br

$\Rightarrow |OA| = r = ?$

A) 4 B) 5 C) 6 D) 7 E) 8

12.



O, merkez (*center*)

$[CH] \perp [AB]$

$|CK| = 4$ br

$|KH| = 5$ br

$|EK| = 8$ br

$\Rightarrow |KD| = x = ?$

A) 4 B) 5 C) 6 D) 7 E) 8

1. C	2. D	3. A	4. C	5. D	6. E
7. C	8. D	9. D	10. B	11. C	12. D

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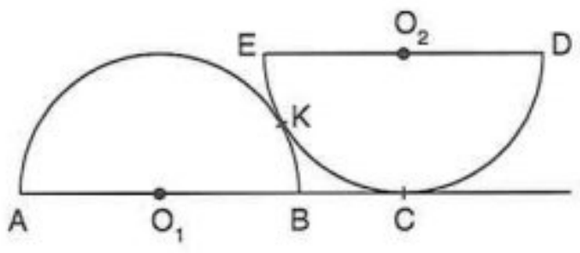
1.

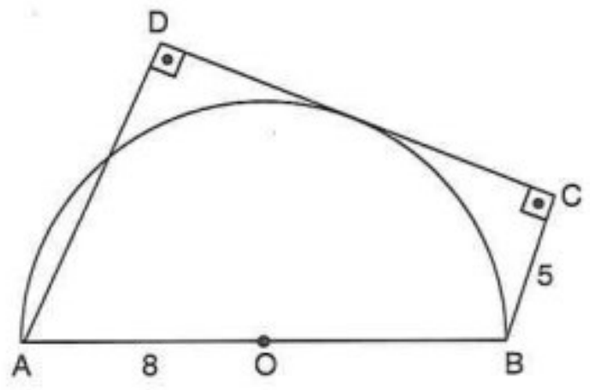


O_1 ve (*and*) O_2,
merkez (*center*)
$|AB| = 10$ br
$|ED| = 6$ br

⇒ $|BC| = ?$

A) 4 B) $5\sqrt{2}+5$ C) $\sqrt{53}-5$ D) 8 E) $\sqrt{55}-5$

2.

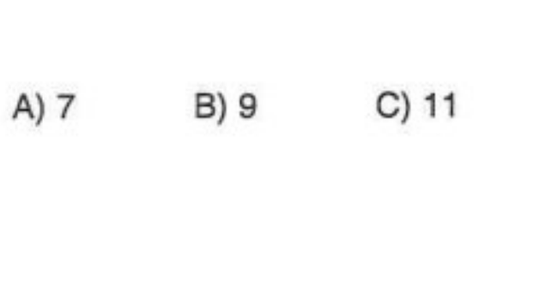


O, merkez (*center*)
$[BC] \perp [DC]$
$[AD] \perp [DC]$
$|OA| = 8$ br
$|BC| = 5$ br

⇒ $|AD| = ?$

A) 7 B) 9 C) 11 D) 13 E) 15

3.

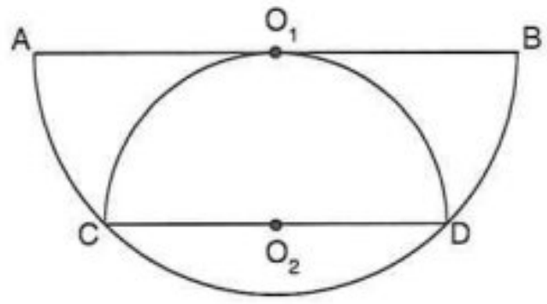


O_1 ve (*and*) O_2,
merkez (*center*)
$|DC| = 2$ br

⇒ $|BC| = ?$

A) $2\sqrt{3}$ B) 4 C) $4\sqrt{2}$ D) 6 E) $4\sqrt{3}$

4.

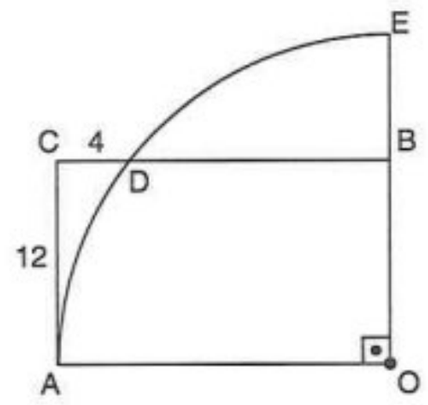


O_1 ve (*and*) O_2,
merkez (*center*)
$|O_1B| = 6$ br

⇒ $|O_2C| = ?$

A) $2\sqrt{3}$ B) 4 C) $3\sqrt{2}$ D) $4\sqrt{2}$ E) $3\sqrt{3}$

5.

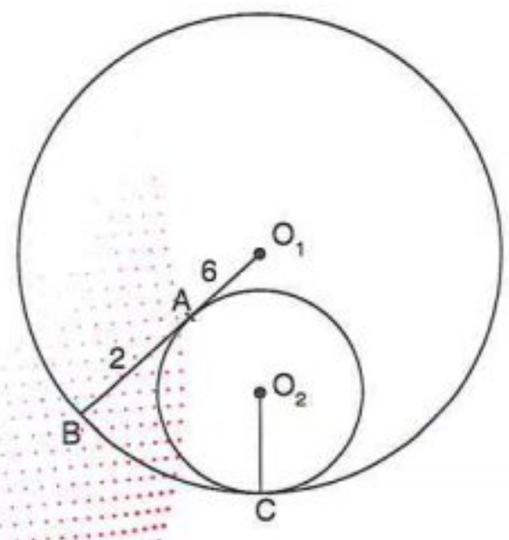


O, merkez (*center*)
AOBC dikdörtgen (*rectangle*)
$|CD| = 4$ br
$|AC| = 12$ br

⇒ $|DB| = ?$

A) 13 B) 15 C) 16 D) 17 E) 18

6.



O_1 ve (*and*) O_2,
merkez (*center*)
$|O_1A| = 6$ br
$|AB| = 2$ br

⇒ $|O_2C| = ?$

A) $\frac{7}{4}$ B) 2 C) $\frac{7}{2}$ D) 3 E) 4

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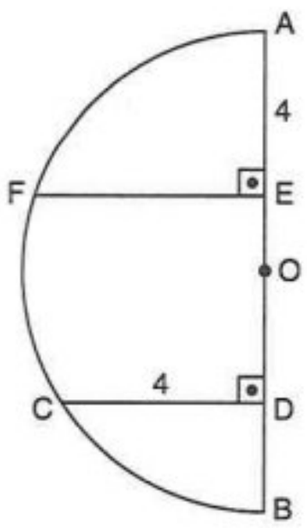
7.



O, merkez (*center*)

$|FE] \perp [AB]$

$|CD] \perp [AB]$

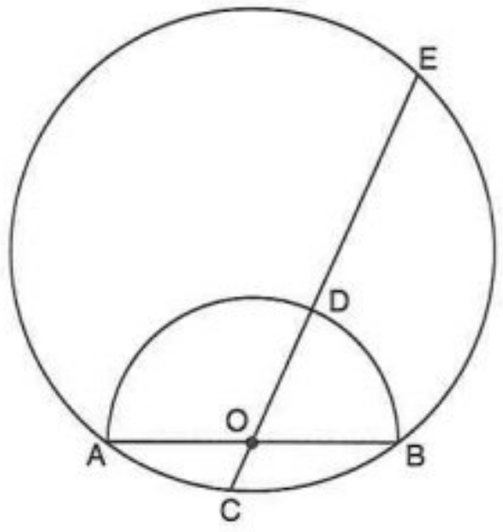
$|DB| = 2$ br

$|CD| = |AE| = 4$ br

⇒ $|FE| = ?$

A) 3 B) 4 C) $2\sqrt{5}$ D) $2\sqrt{6}$ E) 5

8.



O, merkez (*center*)

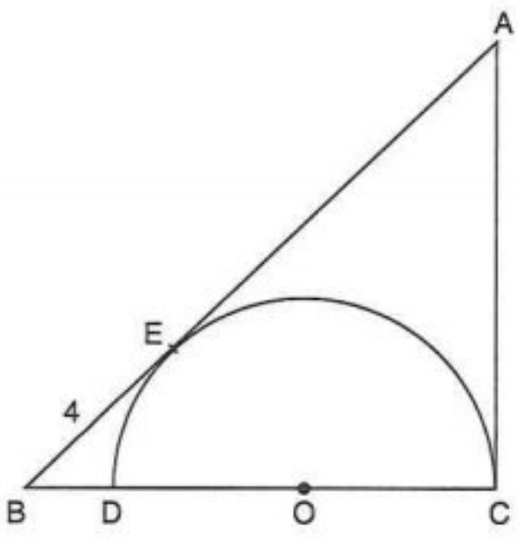
$|OC| = 2$ br

$|ED| = 12$ br

⇒ $|AO| = ?$

A) 3 B) 4 C) 6 D) 8 E) 9

9.



O, merkez (*center*)

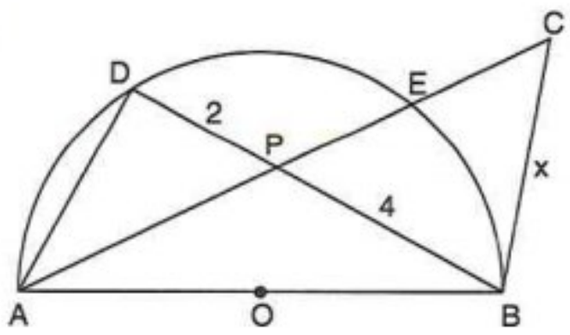
$|AE| = 6$ br

$|EB| = 4$ br

⇒ $|BD| = ?$

A) 1 B) $\frac{3}{2}$ C) 2 D) $\frac{5}{2}$ E) 3

10.



O, merkez (*center*)

$m(\widehat{DE}) = m(\widehat{EB})$

$[AD] \mathbin{/\!/} [BC]$

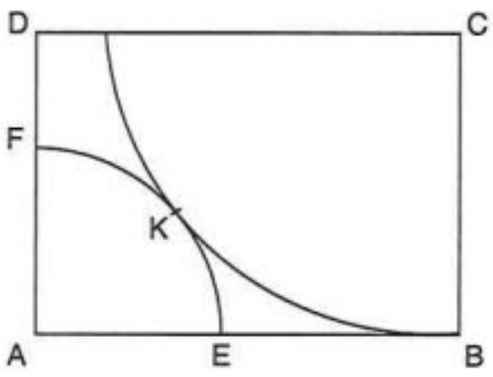
$|DP| = 2$ br

$|PB| = 4$ br

⇒ $|BC| = x = ?$

A) $2\sqrt{3}$ B) 4 C) 6 D) $4\sqrt{3}$ E) 8

11.



ABCD dikdörtgen (*rectangle*)

A ve (*and*) C merkez (*center*)

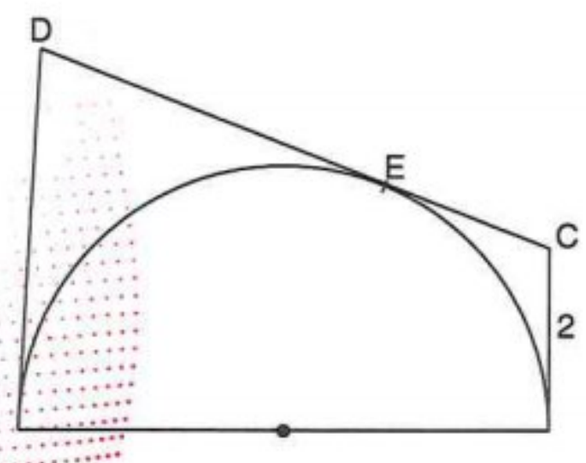
$|AF| = 2$ br

$|DC| = 4$ br

⇒ $|DF| = ?$

A) 1 B) $\frac{3}{2}$ C) 2 D) $\frac{5}{2}$ E) 3

12.



O, merkez (*center*)

$|BC| = 2$ br

$|AD| = 8$ br

⇒ $|OA| = ?$

A) 2 B) 3 C) 4 D) 6 E) 8

1. E	2. C	3. D	4. C	5. C	6. A
7. D	8. C	9. C	10. D	11. A	12. C

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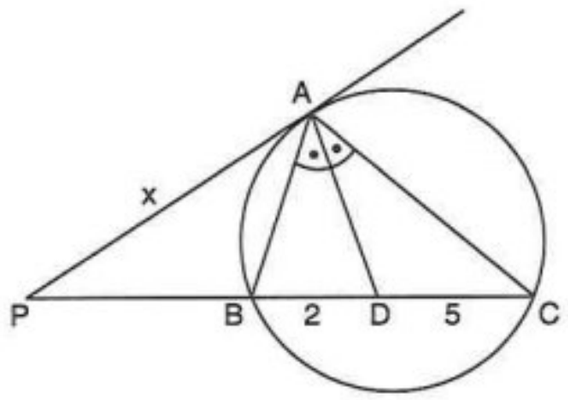
1.



$m(B\hat{A}D) = m(D\hat{A}C)$

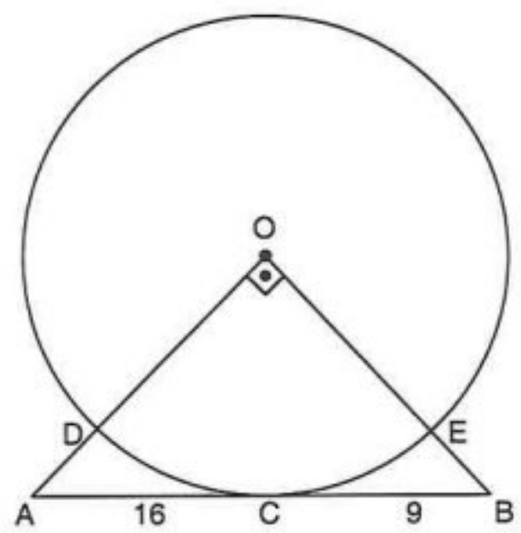
$|BD| = 2$ br

$|DC| = 5$ br

⇒ $|AP| = x = ?$

A) 2 B) $\frac{10}{3}$ C) $\frac{7}{2}$ D) 4 E) $\frac{14}{5}$

2.



O, merkez (*center*)

$[AO] \perp [OB]$

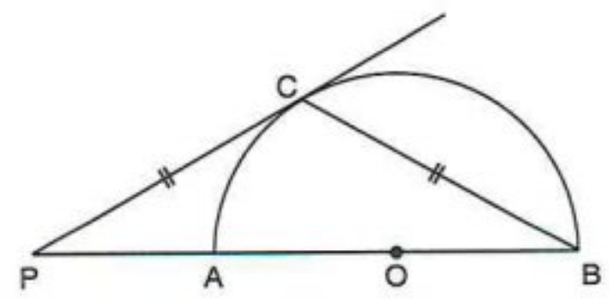
$|AC| = 16$ br

$|CB| = 9$ br

⇒ $|EB| = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

3.



O, merkez (*center*)

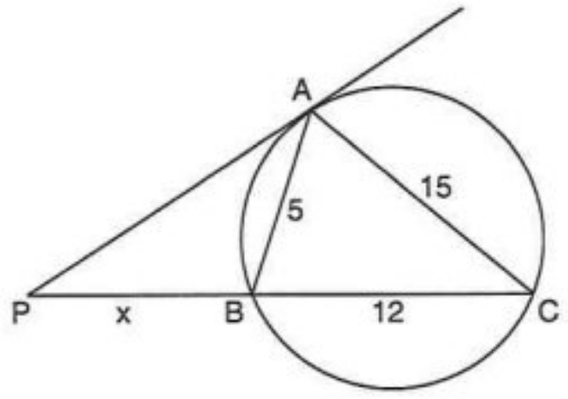
$|PC| = |CB|$

$|OB| = 2\sqrt{6}$ br

⇒ $|PC| = ?$

A) $2\sqrt{2}$ B) $2\sqrt{3}$ C) $4\sqrt{2}$ D) $4\sqrt{3}$ E) $6\sqrt{2}$

4.



$|AB| = 5$ br

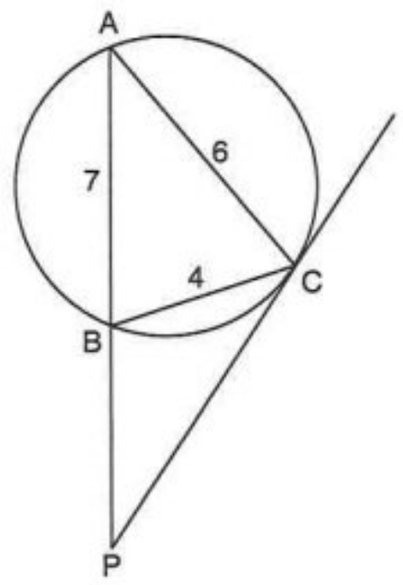
$|BC| = 12$ br

$|AC| = 15$ br

⇒ $|PB| = x = ?$

A) $\frac{3}{2}$ B) 2 C) $\frac{8}{3}$ D) 3 E) 4

5.



$|AB| = 7$ br

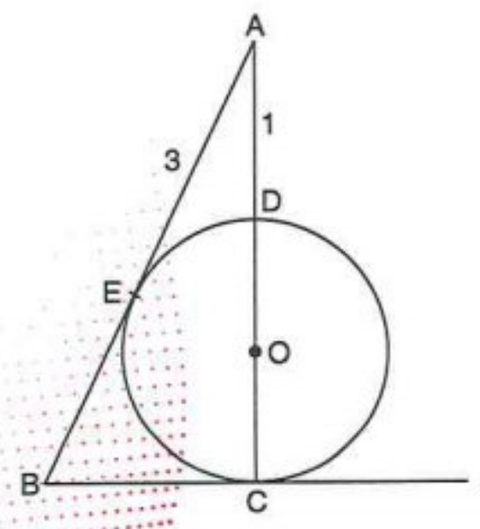
$|AC| = 6$ br

$|BC| = 4$ br

⇒ $|PC| = ?$

A) $\frac{7}{5}$ B) $\frac{7}{4}$ C) $\frac{7}{3}$ D) $\frac{14}{5}$ E) $\frac{42}{5}$

6.



O, merkez (*center*)

$|AD| = 1$ br

$|AE| = 3$ br

⇒ $|BC| = ?$

A) 4 B) 6 C) 8 D) 9 E) 12

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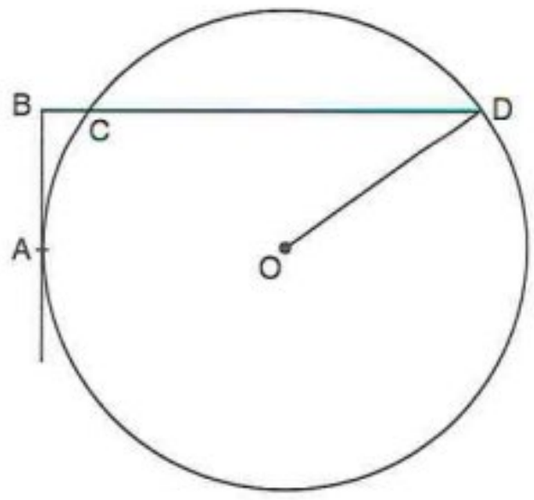
7.



O, merkez (*center*)

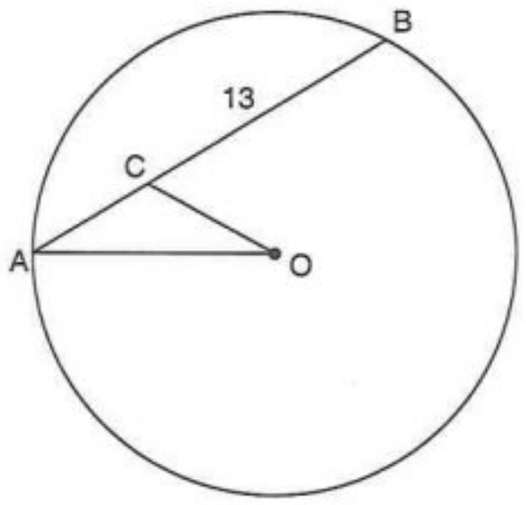
$|AB| = 4$ br

$|OD| = 5$ br

$\Rightarrow |BC| = ?$

A) 1 B) 2 C) 2,5 D) 3 E) 4

8.



O, merkez (*center*)

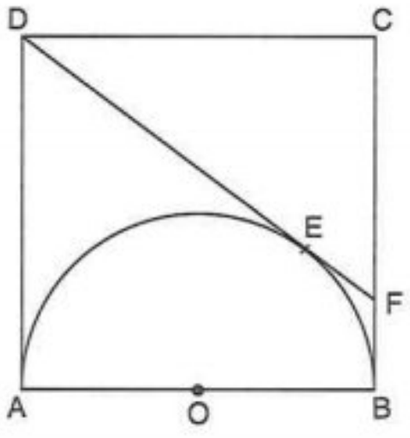
$|OC| = |AC| = 5$ br

$|BC| = 13$ br

$\Rightarrow |OA| = ?$

A) 8 B) $6\sqrt{2}$ C) 9 D) $4\sqrt{6}$ E) $3\sqrt{10}$

9.



ABCD kare (*square*)

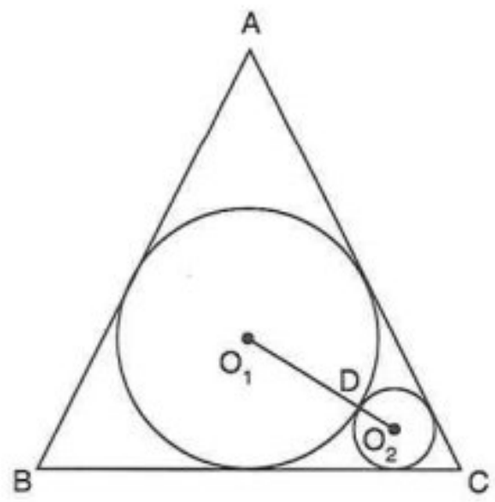
O, merkez (*center*)

$|AD| = 8$ br

$\Rightarrow |EF| = ?$

A) 1 B) $\frac{3}{2}$ C) 2 D) $\frac{5}{2}$ E) 3

10.



O_1 ve (*and*) O_2,

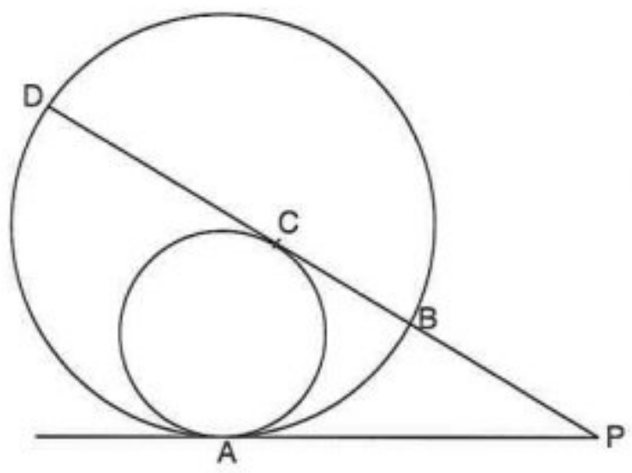
merkez (*center*)

$|AB| = |BC| = |AC|$

$\Rightarrow \frac{|O_1D|}{|O_2D|} = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

11.

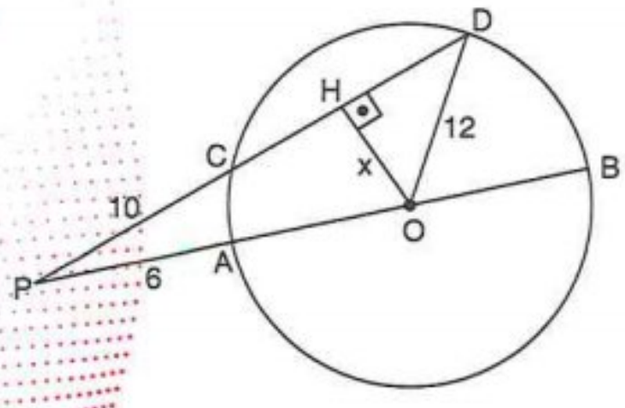


$|DC| = 2|BC| = 8$ br

$\Rightarrow |AP| = ?$

A) 6 B) 8 C) 9 D) 10 E) 12

12.



O, merkez (*center*)

$[OH] \perp [PD]$

$|OD| = 12$ br

$|PC| = 10$ br

$|AP| = 6$ br

$\Rightarrow |OH| = x = ?$

A) $4\sqrt{3}$ B) $6\sqrt{2}$ C) 8 D) $8\sqrt{2}$ E) 10

1. B	2. C	3. E	4. A	5. E	6. E
7. B	8. E	9. C	10. B	11. B	12. D

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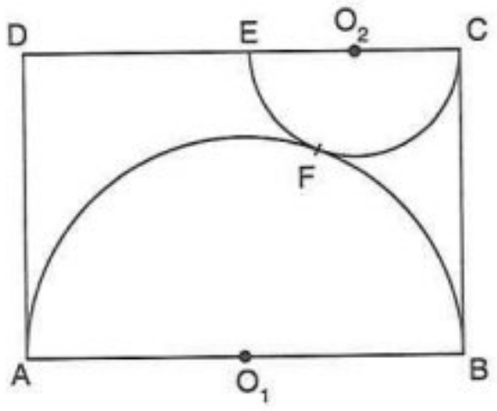
1.



O_1 ve (*and*) O_2, merkez (*center*)

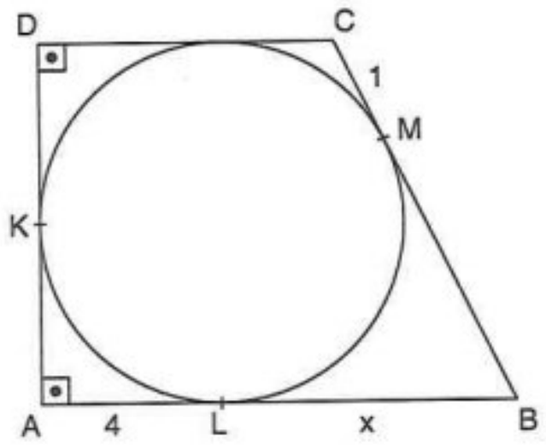
$|AD| = 12$ br

$|DC| = 18$ br

$\Rightarrow$ **$|DE| = ?$**

A) 6 B) 8 C) 9 D) 10 E) 12

2.



$[DC] \perp [AD]$

$[AD] \perp [AB]$

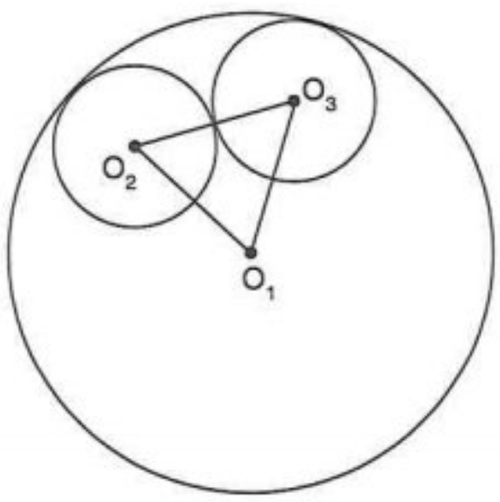
$|CM| = 1$ br

$|AL| = 4$ br

$\Rightarrow$ **$|BL| = x = ?$**

A) 8 B) 10 C) 12 D) 16 E) 18

3.



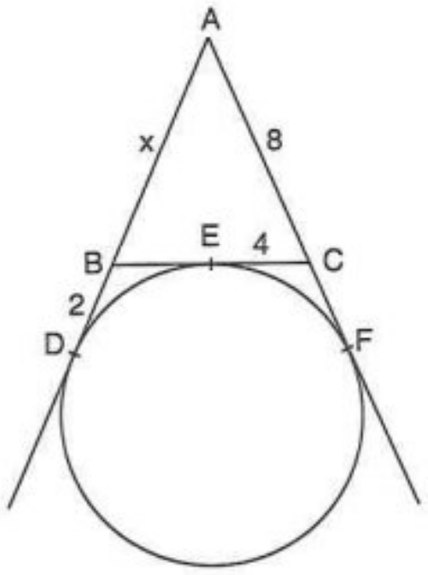
O_1, O_2 ve (*and*) O_3, merkez (*center*)

$Ç(O_1\ O_2\ O_3) = 36$

$\Rightarrow$ **$r_1 = ?$**

A) 6 B) 8 C) 9 D) 12 E) 18

4.



$|AC| = 8$ br

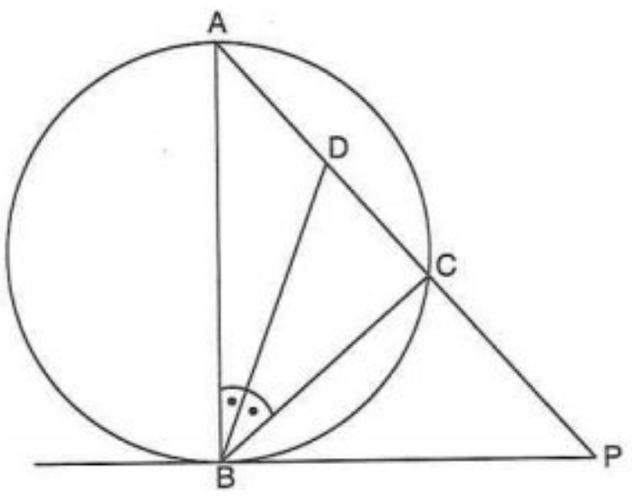
$|EC| = 4$ br

$|BD| = 2$ br

$\Rightarrow$ **$|AB| = x = ?$**

A) 9 B) 10 C) 11 D) 12 E) 13

5.



$m(\widehat{ABD}) = m(\widehat{DBC})$

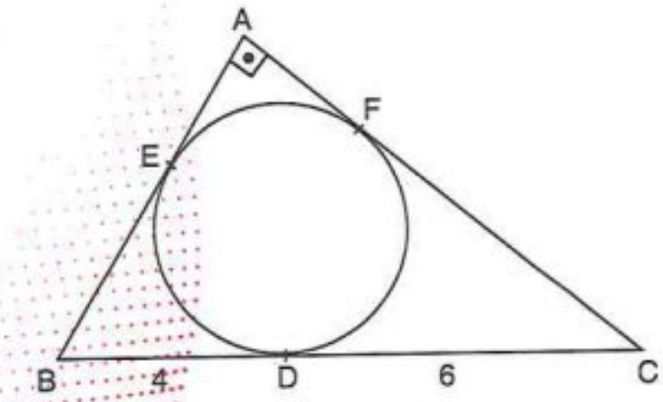
$|AD| = 10$ br

$|DC| = 6$ br

$\Rightarrow$ **$|BP| = ?$**

A) 8 B) 9 C) 12 D) 15 E) 17

6.



$[AB] \perp [AC]$

$|BD| = 4$ br

$|DC| = 6$ br

$\Rightarrow$ **$A(ABC) = ?$**

A) 12 B) $12\sqrt{2}$ C) 18 D) $18\sqrt{2}$ E) 24

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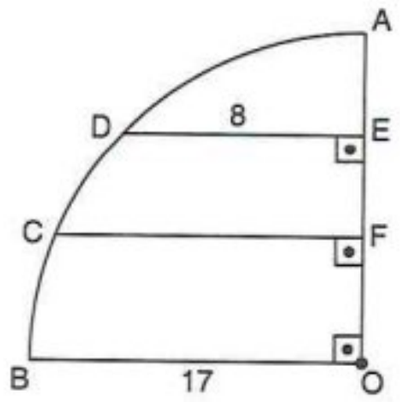
7.

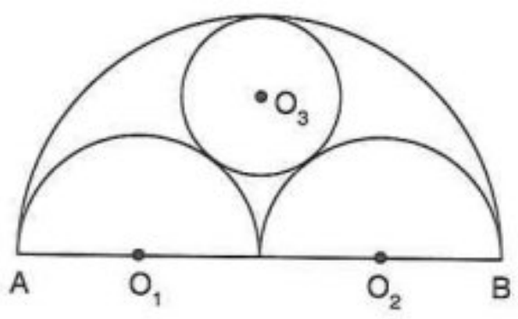


O, merkez (*center*)
$[OA] \perp [OB]$
$[CF] \perp [OA]$
$[DE] \perp [OA]$
$|OB| = 17$ br
$|CF| = 15$ br
$|DE| = 8$ br

$\Rightarrow |EF| = ?$

A) 4 B) 5 C) 6 D) 7 E) 8

8.

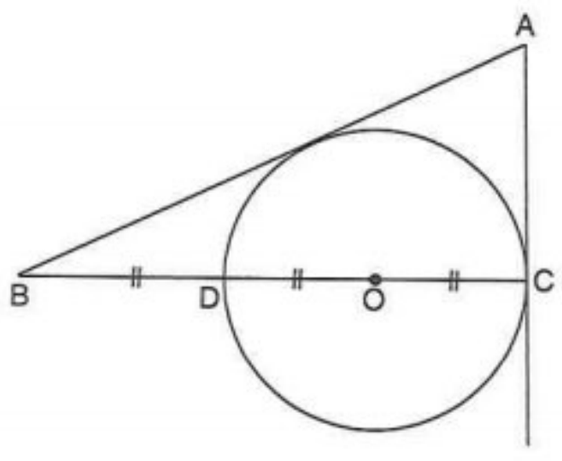


O_1, O_2 ve (*and*) O_3, merkez (*center*)
$|AB| = 24$ br

$\Rightarrow r_3 = ?$

A) 1 B) 2 C) 3 D) 4 E) 6

9.

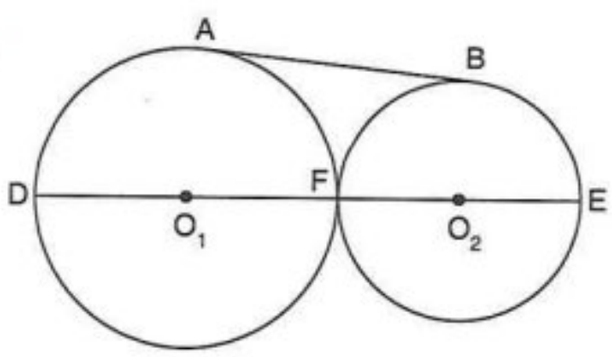


O, merkez (*center*)
$|BD| = |DO| = |OC|$
$|AC| = 6$ br

$\Rightarrow |OD| = ?$

A) $3\sqrt{3}$ B) $2\sqrt{3}$ C) 3 D) $2\sqrt{2}$ E) 2

10.

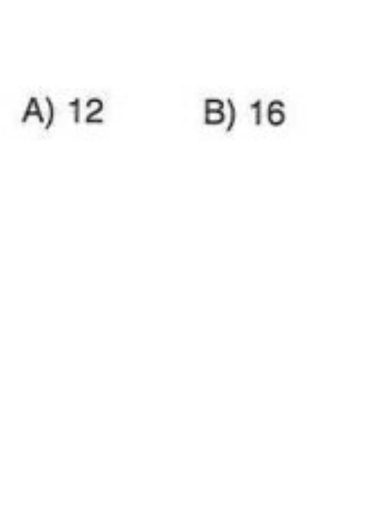


O_1 ve (*and*) O_2, merkez (*center*)
$|O_1F| = |O_2E| + 3$
$|AB| = 6\sqrt{2}$ br

$\Rightarrow |DE| = ?$

A) 12 B) 16 C) 18 D) 24 E) 27

11.

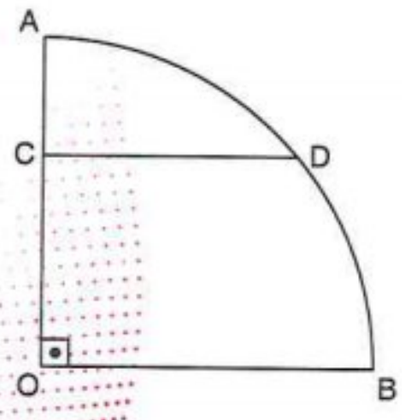


ABCD dikdörtgen (*rectangle*)
O, A merkez (*center*)
$|AD| = 16$ br
$|AB| = 6$ br

$\Rightarrow |EF| = x = ?$

A) 4 B) 3 C) $\frac{5}{2}$ D) 2 E) $\frac{3}{2}$

12.



O, merkez (*center*)
$[AO] \perp [OB]$
$[CD] \parallel [OB]$
$3|AC| = 2|CO|$
$|OB| = 10$ br

$\Rightarrow |CD| = ?$

A) 4 B) 5 C) 6 D) 8 E) 9

1. D	2. D	3. E	4. B	5. D	6. E
7. D	8. D	9. B	10. C	11. A	12. D

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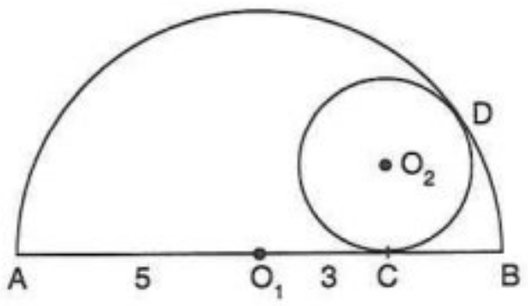
1.

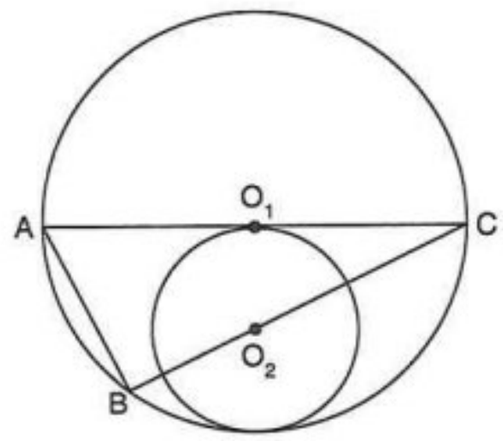


O_1 ve (*and*) O_2,
merkez (*center*)
$|AO_1| = 5$ br
$|O_1C| = 3$ br

$\Rightarrow r_2 = ?$

A) $\frac{6}{5}$ B) $\frac{7}{5}$ C) $\frac{8}{5}$ D) $\frac{9}{5}$ E) 2

2.

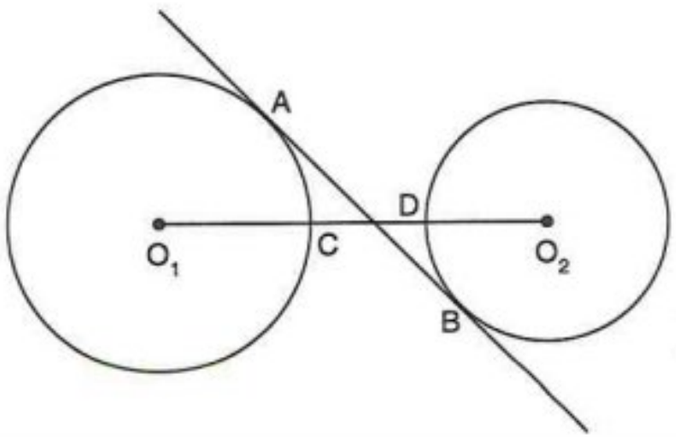


O_1 ve (*and*) O_2,
merkez (center)
$|AB| = 6$ br

$\Rightarrow r_2 = ?$

A) $\sqrt{5}$ B) $\frac{3\sqrt{5}}{2}$ C) $2\sqrt{5}$ D) $\frac{5\sqrt{5}}{2}$ E) $3\sqrt{5}$

3.

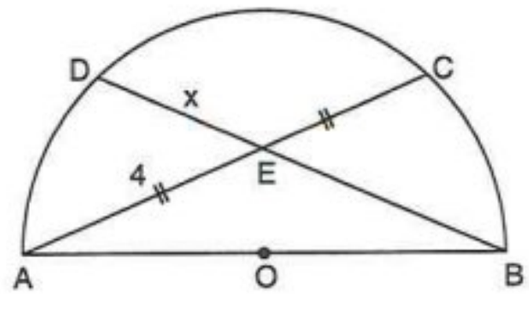


O_1 ve (*and*) O_2,
merkez (*center*)
$|O_1C| = 9$ br
$|O_2D| = 7$ br
$|AB| = 12$ br

$\Rightarrow |CD| = ?$

A) 4 B) 5 C) $6\sqrt{5}$ D) 7 E) $8\sqrt{5}$

4.

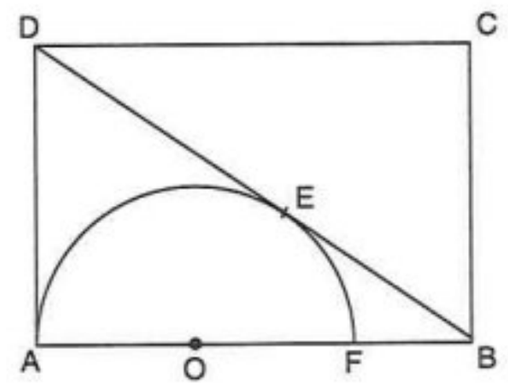


O_1 ve (*and*) O_2,
merkez (*center*)
$|AE| = |EC| = 4$ br
$|AB| = 4\sqrt{5}$ br

$\Rightarrow |DE| = x = ?$

A) $\sqrt{2}$ B) $\sqrt{3}$ C) $2\sqrt{2}$ D) $2\sqrt{3}$ E) 4

5.

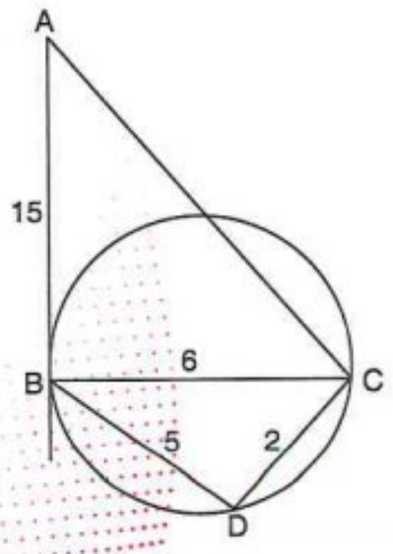


O, merkez (*center*)
ABCD dikdörtgen
(rectangle)
$|AD| = |BE|$
$|AO| = 3\sqrt{6}$ br

$\Rightarrow |BC| = ?$

A) $6\sqrt{2}$ B) $6\sqrt{3}$ C) 9 D) $9\sqrt{2}$ E) $9\sqrt{3}$

6.



$|AB| = 15$ br
$|BC| = 6$ br
$|BD| = 5$ br
$|DC| = 2$ br

$\Rightarrow |AC| = ?$

A) 12 B) 14 C) 15 D) 16 E) 18

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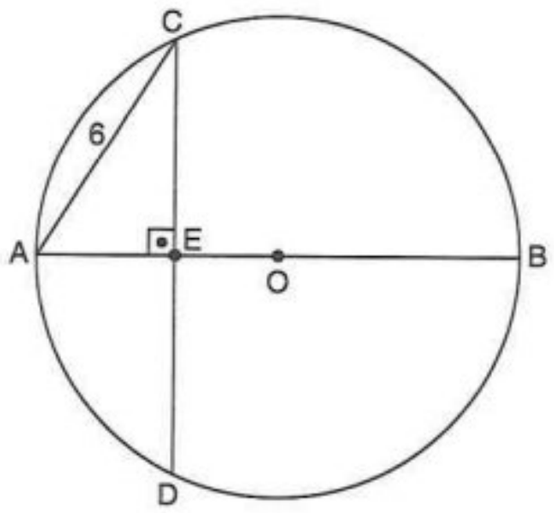
7.



O merkez (*center*)

$[CD] \perp [AB]$

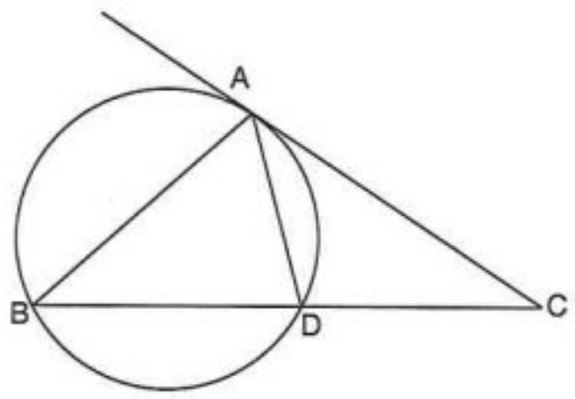
$|AC| = 6$ br

$|EB| = 16$ br

$\Rightarrow |CD| = ?$

A) $4\sqrt{3}$ B) 10 C) $8\sqrt{2}$ D) 12 E) $\sqrt{5}$

8.



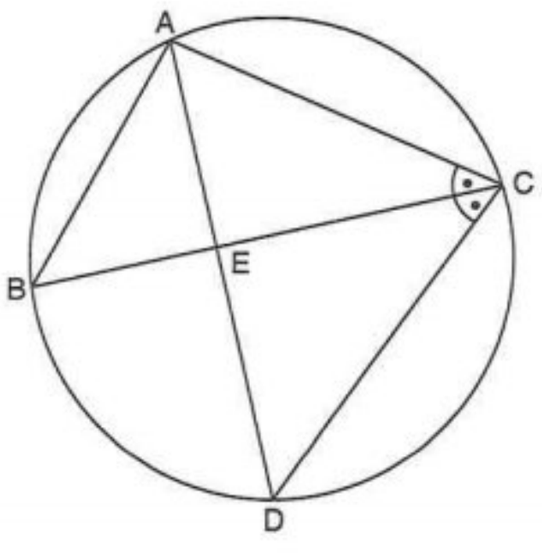
$|BD| = 12$ br

$|DC| = 4$ br

$\Rightarrow \dfrac{|AB|}{|AD|} = ?$

A) 3 B) 2 C) $\frac{3}{2}$ D) 1 E) $\frac{1}{2}$

9.



$m(\widehat{ACB}) = m(\widehat{BCD})$

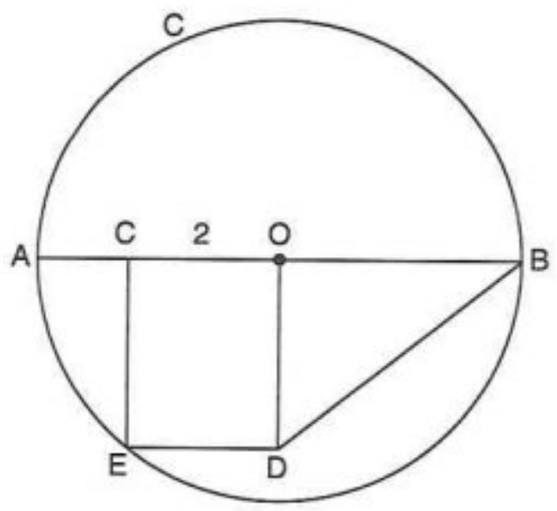
$|AC| = |ED| = 3$ br

$|EC| = 9$ br

$\Rightarrow |AB| = ?$

A) 1 B) 2 C) 3 D) 4 E) 6

10.



O merkez (*center*)

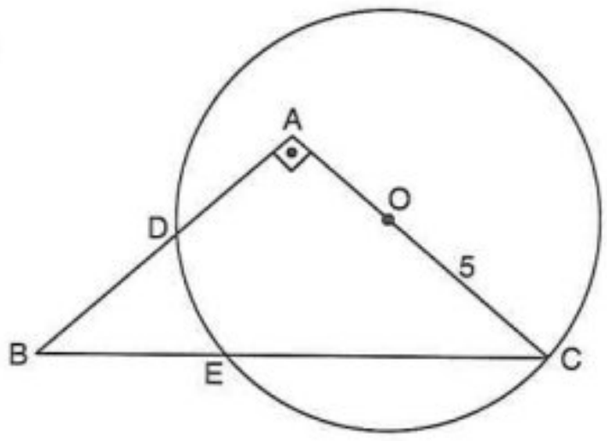
EDOC kare (square)

$|CO| = 2$ br

$\Rightarrow |DB| = ?$

A) $2\sqrt{2}$ B) $2\sqrt{3}$ C) 3 D) $3\sqrt{2}$ E) $3\sqrt{3}$

11.



O merkez (*center*)

$[AB] \perp [AC]$

$|OC| = 5$ br

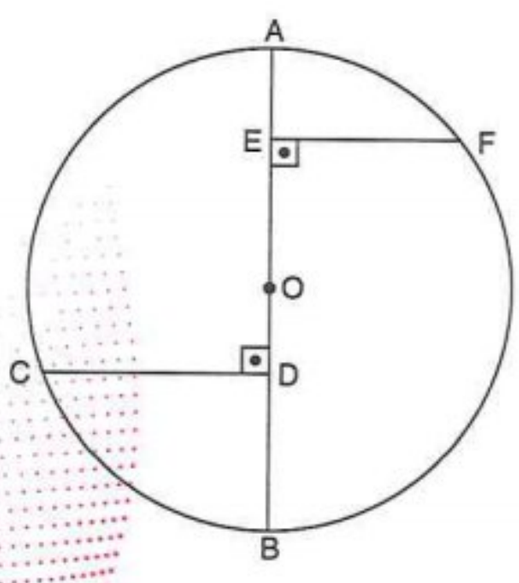
$|OA| = 3$ br

$|BD| = 2$ br

$\Rightarrow |EC| = ?$

A) 6 B) 7 C) 8 D) 9 E) 10

12.



O merkez (*center*)

$[EF] \perp [AB]$

$[CD] \perp [AB]$

$|AE| = 2$ br

$|EF| = 4$ br

$|ED| = 7$ br

$\Rightarrow |CD| = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

1. C	2. B	3. A	4. C	5. D	6. E
7. C	8. B	9. A	10. B	11. C	12. C

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DAİREDE ALAN

AREA IN CIRCULAR REGION

KONU KAVRAMA TESTİ
Thread Grip Test

ZİHİN HARİTASI
Mind Map

6
TEST
Tests

120
SORU
Questions

CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS

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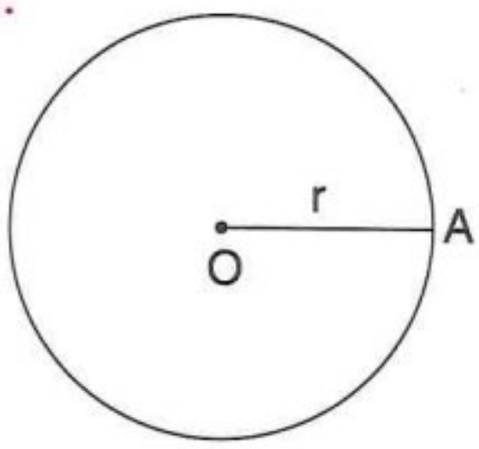
DAİREDE ALAN
AREA IN CIRCULAR REGION

CANER eğitim kurumları

1.



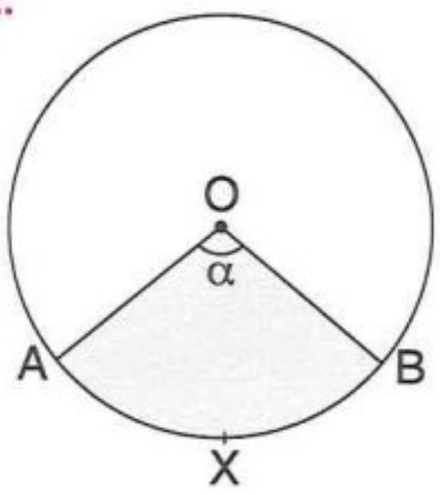
O, merkez

$|OA| = r$

Çevre $= 2\pi r$

Alan $= \pi r^2$

2.

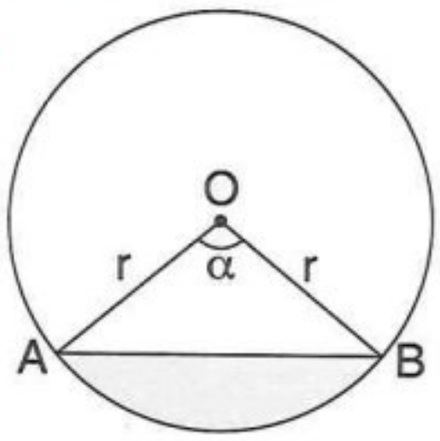


O, merkez

$A(AOB) = \pi r^2 \cdot \frac{\alpha}{360°}$

$|AXB| = 2\pi r \cdot \frac{\alpha}{360°}$

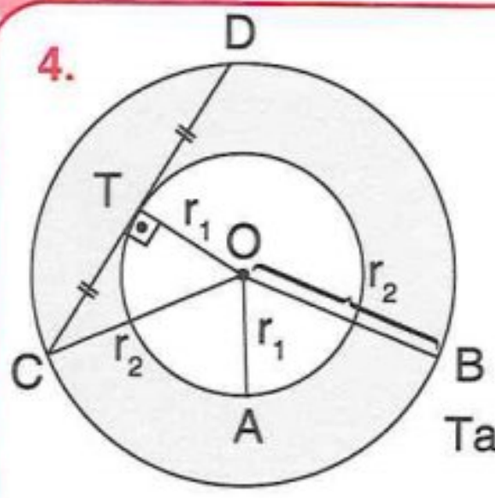
3.



O, merkez

Taralı Alan $= \pi r^2 \cdot \frac{\alpha}{360} - \frac{1}{2} r^2 \cdot \sin\alpha$

4.



O, merkez

$|OA| = r_1$

$|OB| = r_2$

$|CT| = |TD|$

Taralı Alan $= \pi (r_2^2 - r_1^2)$

$= \pi \cdot \left(\frac{|CD|}{2}\right)^2$

5.

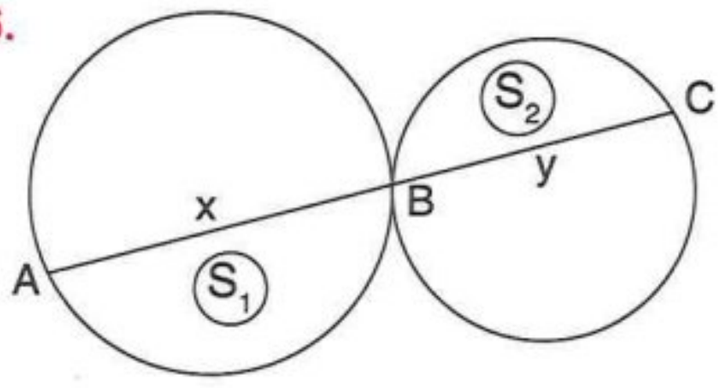
O, merkez

$|OA| = r_1$

$|OD| = r_2$

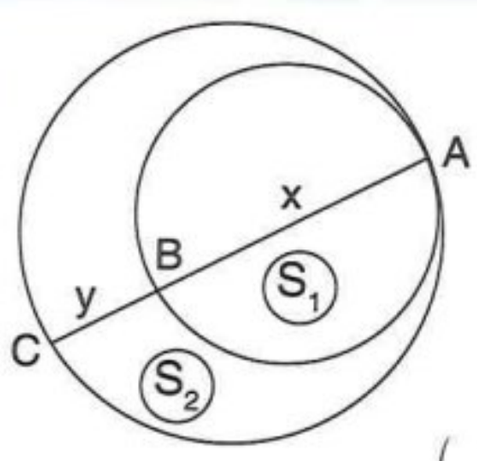
Taralı Alan $= \pi(r_2^2 - r_1^2) \cdot \frac{\alpha}{360}$

6.



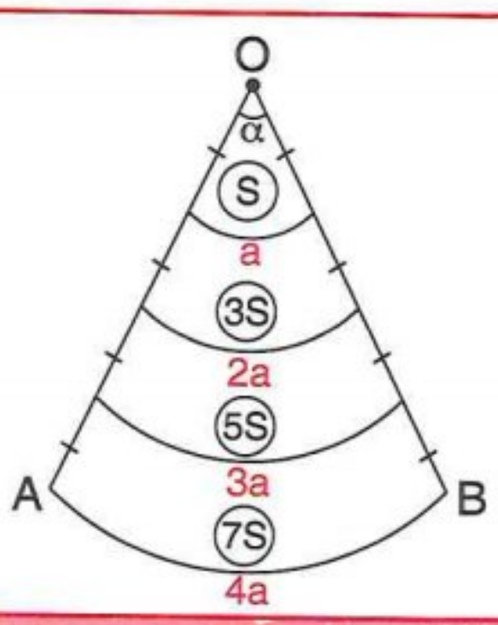
$\left(\frac{x}{y}\right)^2 = \frac{S_1}{S_2}$

7.



$\left(\frac{x}{x+y}\right)^2 = \frac{S_1}{S_1 + S_2}$

8.



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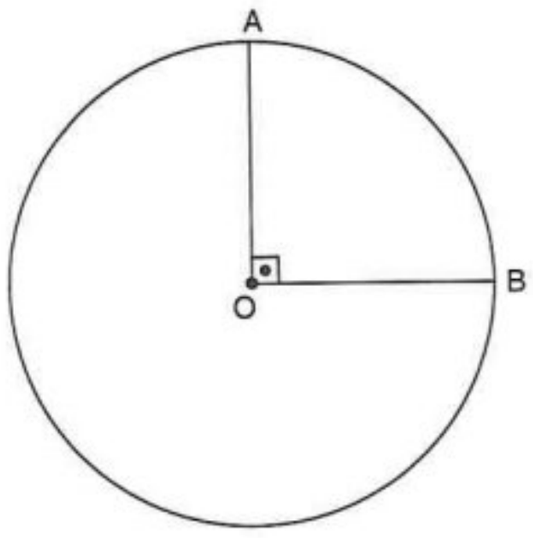
1.



O, merkez *(center)*

$[AO] \perp [OB]$

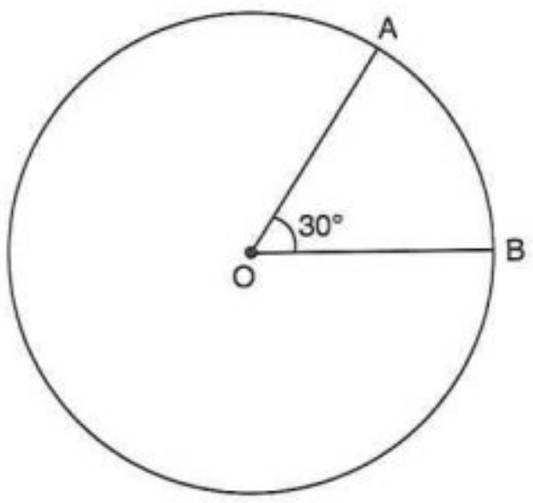
$|\widehat{AB}| = 4\pi$

⇒ **O Merkezli Dairenin Alanı = ?**

(Area of a circular region with a center O = ?)

A) 32π B) 48π C) 64π D) 72π E) 80π

2.



O, merkez *(center)*

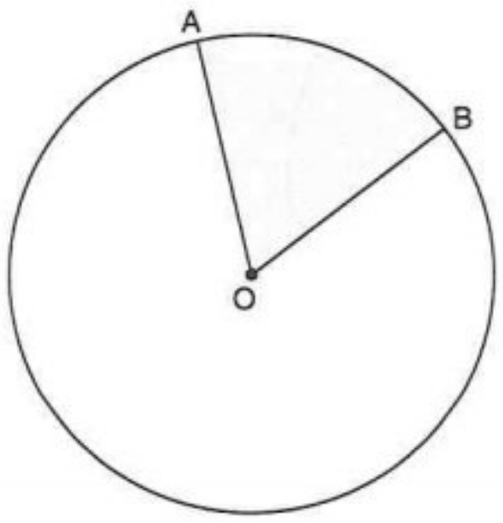
Dairenin alanı = 144π br^2
(Area of circular)

$m(\widehat{AOB}) = 30°$

⇒ $|\widehat{AB}| = ?$

A) π B) 2π C) 3π D) 4π E) 5π

3.



O, merkez *(center)*

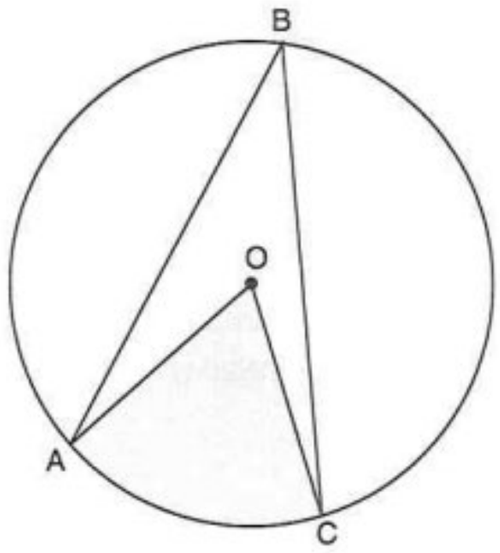
$m(\widehat{AOB}) = 30°$

$|AO| = 4$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $\frac{\pi}{3}$ B) $\frac{2\pi}{3}$ C) π D) $\frac{4\pi}{3}$ E) $\frac{5\pi}{3}$

4.



O, merkez *(center)*

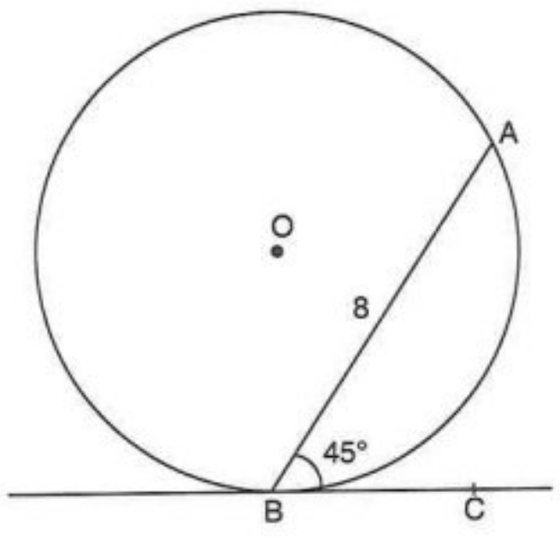
$m(\widehat{ABC}) = 30°$

$|AO| = 6$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 2π B) 3π C) 4π D) 5π E) 6π

5.



O, merkez *(center)*

$m(\widehat{ABC}) = 45°$

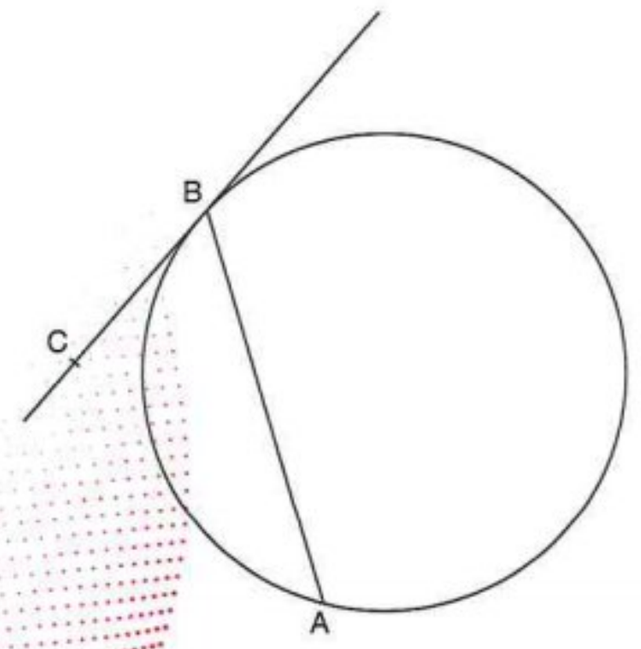
$|AO| = 8$ br

⇒ **O Merkezli Dairenin Alanı = ?**

(Area of a circular region with a center O = ?)

A) 16π B) 24π C) 32π D) 48π E) 64π

6.



$m(\widehat{ABC}) = 60°$

$|AB| = 9$ br

⇒ **O Merkezli Dairenin Alanı = ?**

(Area of a circular region with a center O = ?)

A) 18π B) 27π C) 36π D) 54π E) 81π

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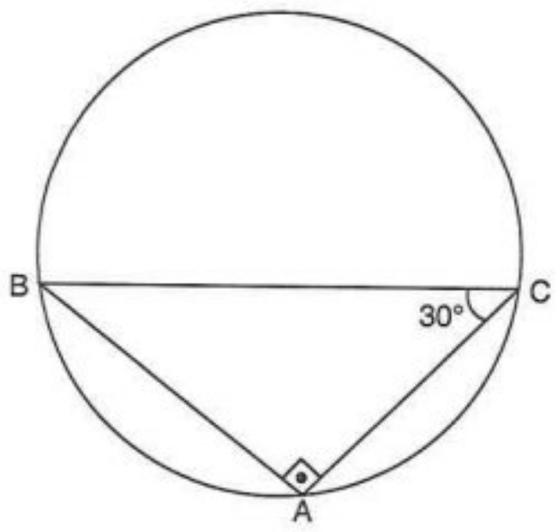
7.



$[AB] \perp [AC]$

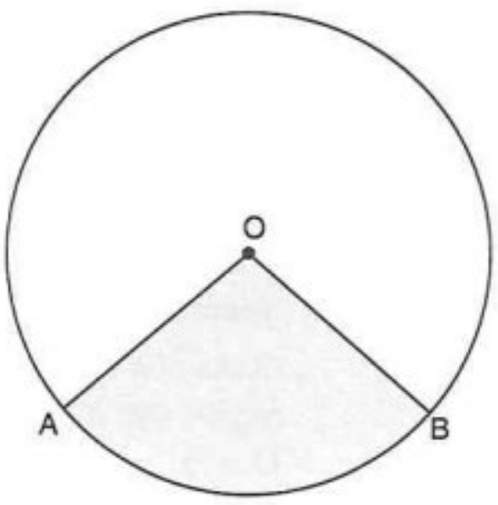
$m(\widehat{BCA}) = 30°$

$|AC| = 12$ br

⇒ **Dairenin Alanı = ?**
(Area of a circular region)

A) 16π B) 24π C) 32π D) 48π E) 64π

8.



O, merkez *(center)*

$m(\widehat{AOB}) = 72°$

$|AO| = 10$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 20π B) 25π C) 40π D) 45π E) 50π

9.

O, merkez *(center)*

$|AC| = 2$ br

$|OC| = 2\sqrt{5}$ br

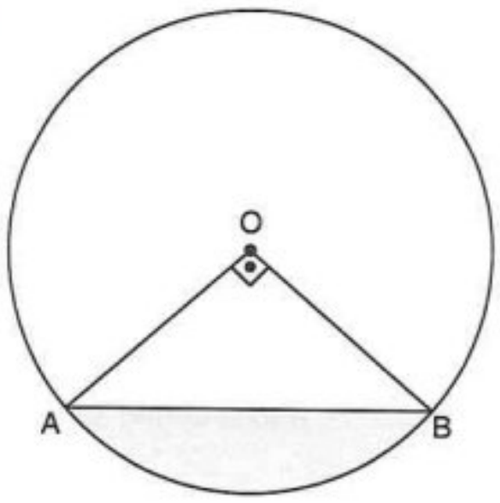
$|CB| = 10$ br

⇒ **O Merkezli Dairenin Alanı = ?**

(Area of a circular region with a center O = ?)

A) 25π B) 36π C) 40π D) 45π E) 48π

10.



O, merkez *(center)*

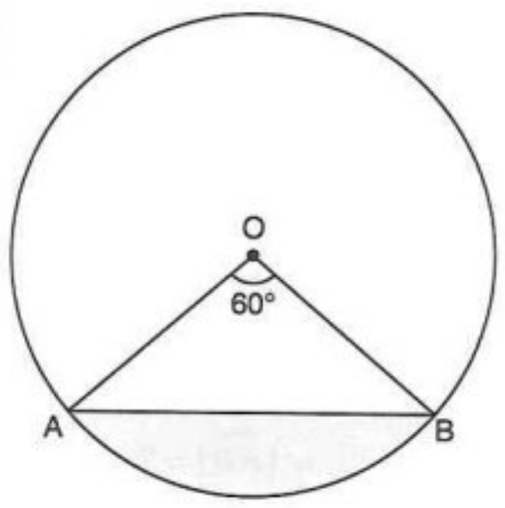
$[AO] \perp [OB]$

$|AB| = 6\sqrt{2}$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $9\pi - 9$ B) $9\pi - 6$ C) $9\pi - 12$ D) $9\pi - 36$ E) $9\pi - 18$

11.



O, merkez *(center)*

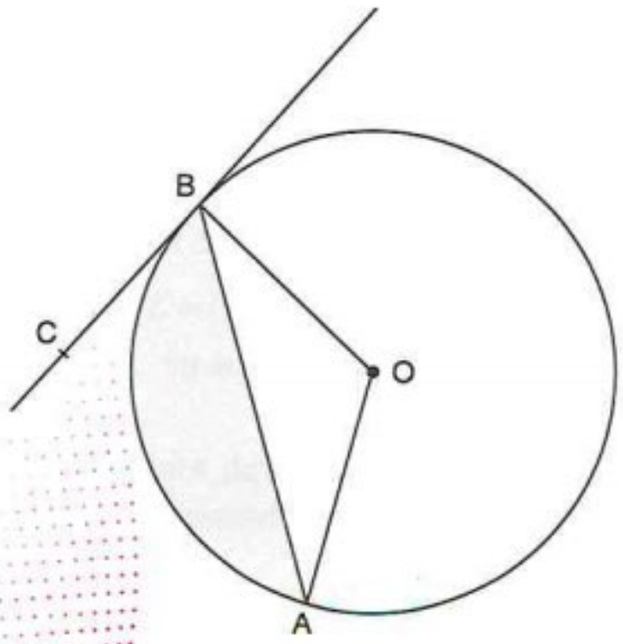
$m(\widehat{AOB}) = 60°$

$|OB| = 4$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $\frac{4\pi}{3} - 4\sqrt{3}$ B) $\frac{8\pi}{3} - 4\sqrt{3}$ C) $4\pi - 2\sqrt{3}$ D) $\frac{4\pi}{3} - 8\sqrt{3}$ E) $\frac{8\pi}{3} - 8\sqrt{3}$

12.



O, merkez *(center)*

$m(\widehat{ABC}) = 60°$

$|AB| = 18$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $18\pi - 27\sqrt{3}$ B) $18\pi - 18\sqrt{3}$ C) $36\pi - 18\sqrt{3}$ D) $36\pi - 27\sqrt{3}$ E) $9\pi - 18\sqrt{3}$

1. C	2. B	3. D	4. E	5. C	6. B
7. D	8. A	9. C	10. E	11. B	12. D

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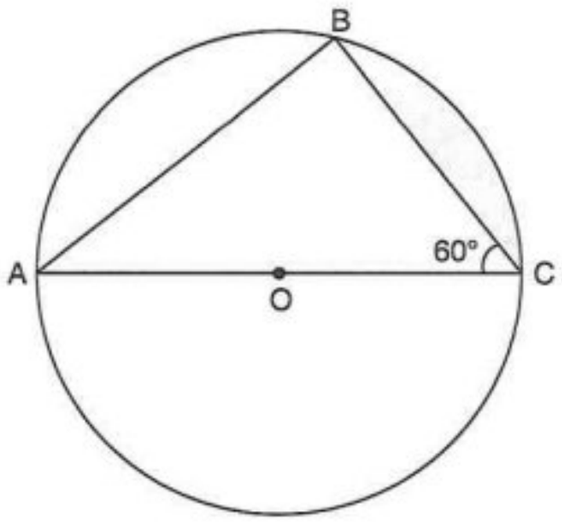
13.



O, merkez *(center)*

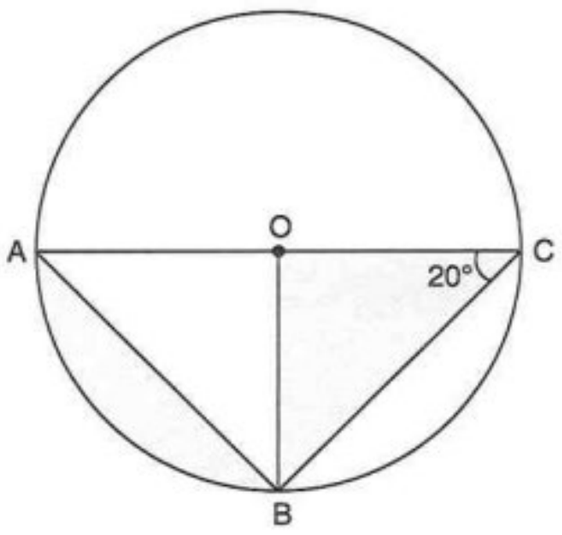
$m(\widehat{ACB}) = 60°$

$|AB| = 4\sqrt{3}$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $\frac{8\pi}{3} - 4\sqrt{3}$ B) $8\pi - 4\sqrt{3}$ C) $\frac{4\pi}{3} - 2\sqrt{3}$
D) $2\pi - 2\sqrt{3}$ E) $\frac{16\pi}{3} - 4\sqrt{3}$

14.



O, merkez *(center)*

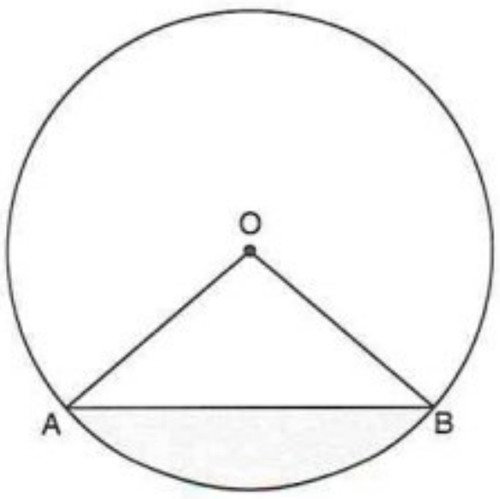
$m(\widehat{BCA}) = 20°$

$|OC| = 6\sqrt{3}$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 6π B) 8π C) 9π D) 12π E) 18π

15.



O, merkez *(center)*

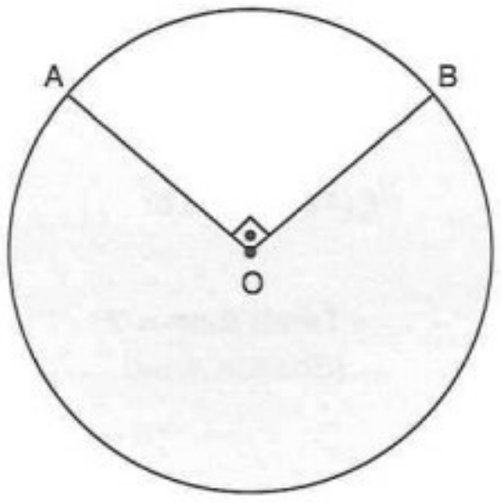
$m(\widehat{AOB}) = 150°$

$|AO| = 4$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $\frac{5\pi}{3} - 6$ B) $\frac{20\pi}{3} - 8$ C) $\frac{10\pi}{3} - 4$
D) $\frac{10\pi}{3} - 8$ E) $\frac{20\pi}{3} - 4$

16.



O, merkez *(center)*

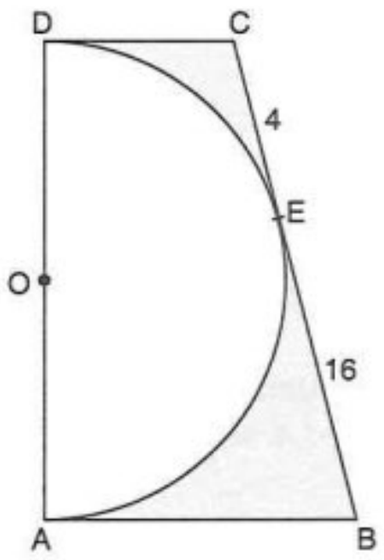
$[OA] \perp [OB]$

$|\widehat{AB}| = 4\pi$

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 36π B) 44π C) 48π D) 56π E) 64π

17.



O, merkez *(center)*

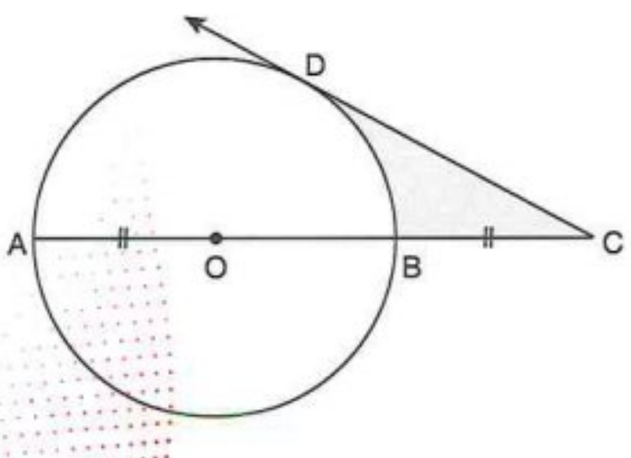
$|CE| = 4$ br

$|EB| = 16$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $160 - 32\pi$ B) $160 - 64\pi$ C) $80 - 32\pi$
D) $80 - 64\pi$ E) $120 - 60\pi$

18.



O, merkez *(center)*

$|OA| = |BC| = 4$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $8\sqrt{3} - \frac{4\pi}{3}$ B) $16\sqrt{3} - \frac{8\pi}{3}$ C) $16\sqrt{3} - \frac{4\pi}{3}$
D) $8\sqrt{3} - \frac{8\pi}{3}$ E) $8 - \frac{16\pi}{3}$

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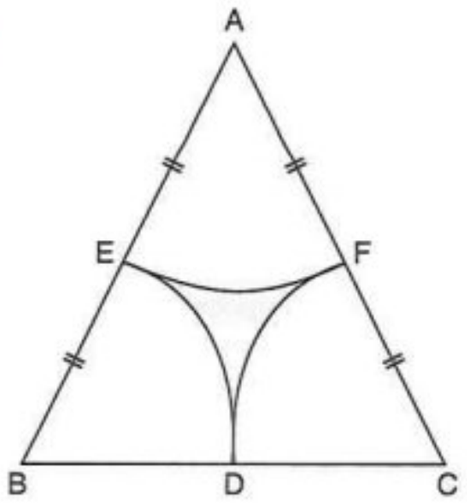
19.



A, B, C merkez *(center)*

$|AE| = |EB|$

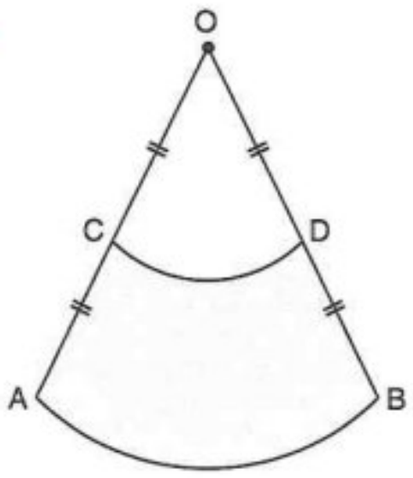
$|AF| = |FC|$

Ç(ABC) = 36 br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $36\sqrt{3} - 18\pi$ B) $24\sqrt{3} - 9\pi$ C) $12\sqrt{3} - 18\pi$
D) $12\sqrt{3} - 9\pi$ E) $12\sqrt{3} - 12\pi$

20.



O, merkez *(center)*

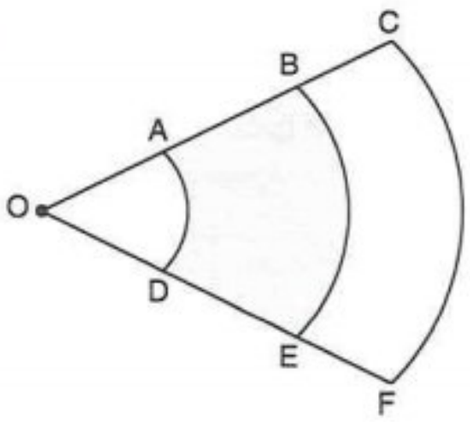
$m(\widehat{AOB}) = 30°$

$|OC| = |AC| = |OD| = |DB| = 4$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 2π B) 3π C) 4π D) 6π E) 8π

21.



O, merkez *(center)*

$m(\widehat{COF}) = 45°$

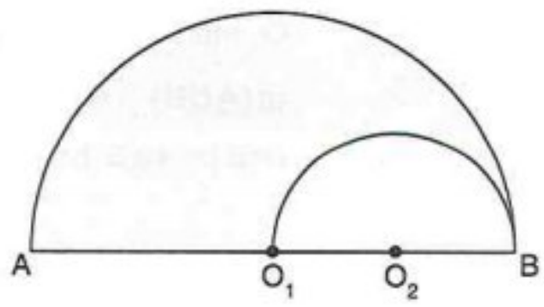
$2|OA| = |AB| = 2|BC|$

$|\widehat{BE}| = \frac{3\pi}{2}$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 4π B) 5π C) 6π D) 7π E) 8π

22.



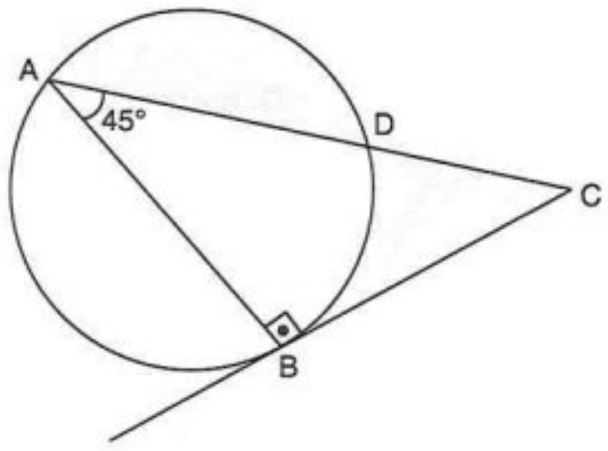
O_1, O_2 merkez *(center)*

$|O_1O_2| = 2$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 4π B) 5π C) 6π D) 7π E) 8π

23.



[AB] ⊥ [BC]

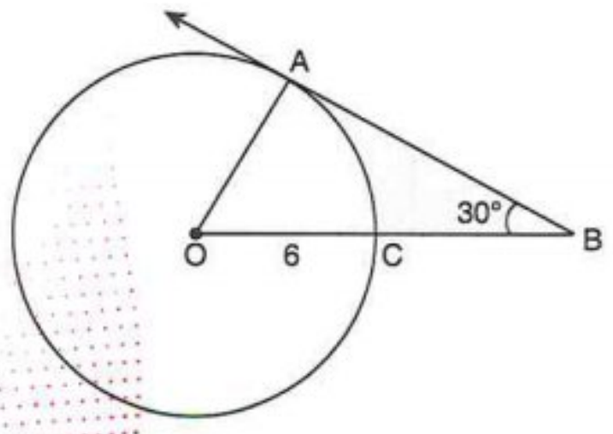
$m(\widehat{BAC}) = 45°$

$|AD| = 6$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 9 B) $12\pi + 3$ C) $9\pi + 9$
D) $9\pi + 3$ E) 18

24.



O, merkez *(center)*

$m(\widehat{ABO}) = 30°$

$|OC| = 6$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $12\sqrt{3} - 9\pi$ B) $18\sqrt{3} - 9\pi$ C) $18\sqrt{3} - 12\pi$
D) $18\sqrt{3} - 6\pi$ E) $12\sqrt{3} - 6\pi$

13. A	14. D	15. E	16. C	17. A	18. D
19. A	20. C	21. A	22. C	23. E	24. D

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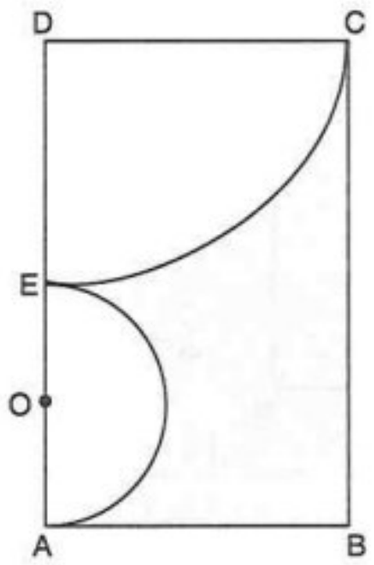
25.



ABCD dikdörtgen *(rectangle)*

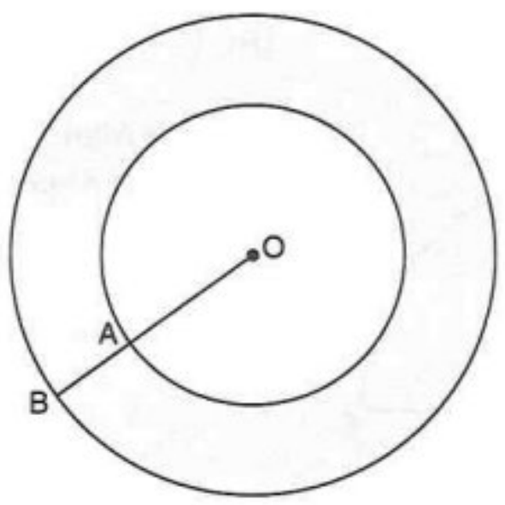
O, D merkez *(center)*

$|DE| = |EA| = 4$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $32-6\pi$ B) $32-8\pi$ C) $32-4\pi$
D) $16-8\pi$ E) $32-16\pi$

26.



O, merkez *(center)*

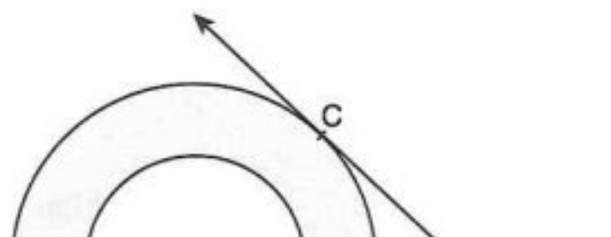
$|OA| = 4$ br

$|AB| = 2$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 16π B) 18π C) 20π D) 21π E) 24π

27.



O, merkez *(center)*

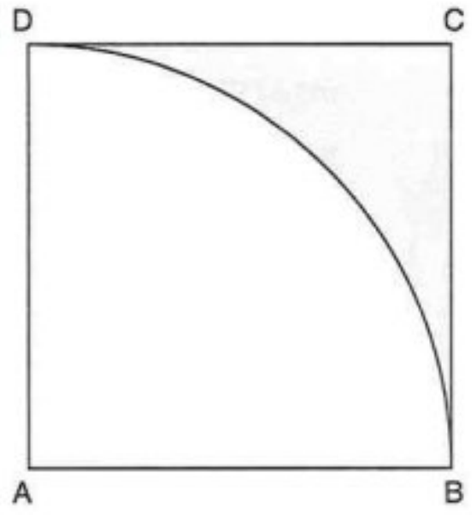
$|PC| = 3\sqrt{5}$ br

$|PB| = 5$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 2π B) 3π C) 4π D) 5π E) 6π

28.



ABCD kare *(square)*

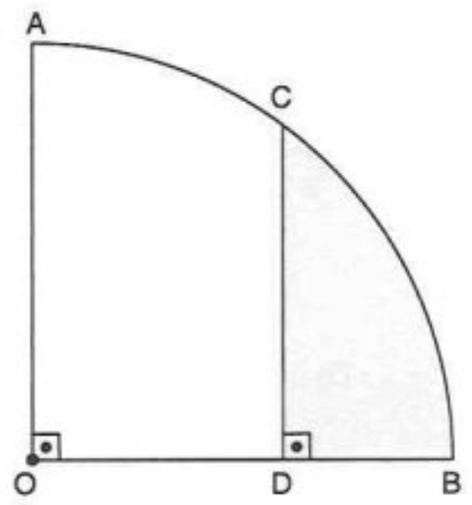
A merkez *(center)*

$|AB| = 2\sqrt{3}$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $12-4\pi$ B) $12-3\pi$ C) $8-3\pi$
D) $12-6\pi$ E) $8-4\pi$

29.



O, merkez *(center)*

$[AO] \perp [OB]$

$[CD] \perp [OB]$

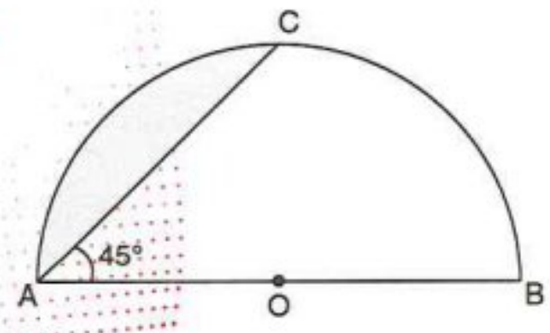
$|OD| = |DB|$

$|CD| = 3\sqrt{2}$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $4\pi-3\sqrt{3}$ B) $6\pi-6\sqrt{3}$ C) $8\pi-4\sqrt{3}$
D) $6\pi-8\sqrt{3}$ E) $8\pi-6\sqrt{3}$

30.



O, merkez *(center)*

$m(\widehat{BAC}) = 45°$

$|OB| = 6$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $9\pi-18$ B) $9\pi-12$ C) $12\pi-9\sqrt{3}$
D) $12\pi-18$ E) $9\pi-6$

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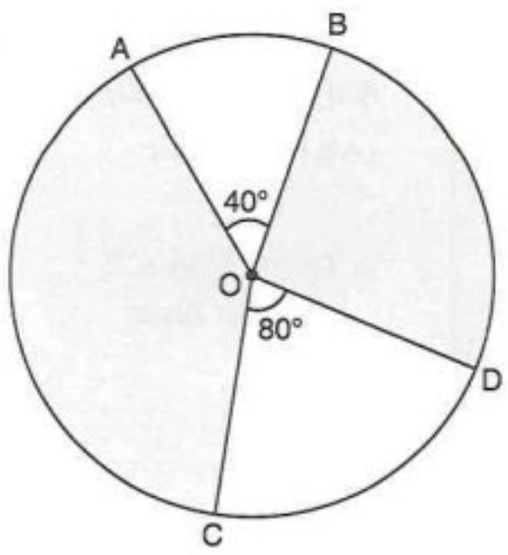
31.



O, merkez *(center)*

$m(\widehat{AOB}) = 40°$

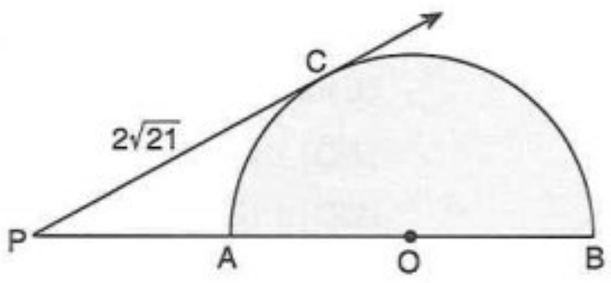
$m(\widehat{COD}) = 80°$

$|OC| = 9$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 27π B) 36π C) 45π D) 54π E) 72π

32.



O, merkez *(center)*

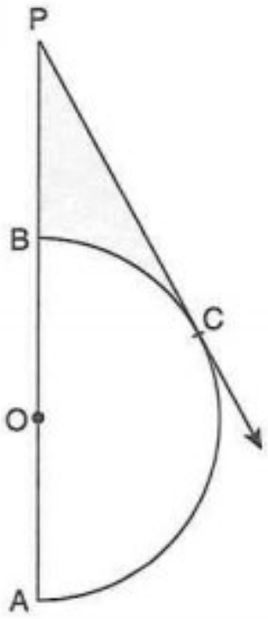
$|PC| = 2\sqrt{21}$ br

$|PB| = 14$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 7π B) 8π C) 9π D) 10π E) 11π

33.



O, merkez *(center)*

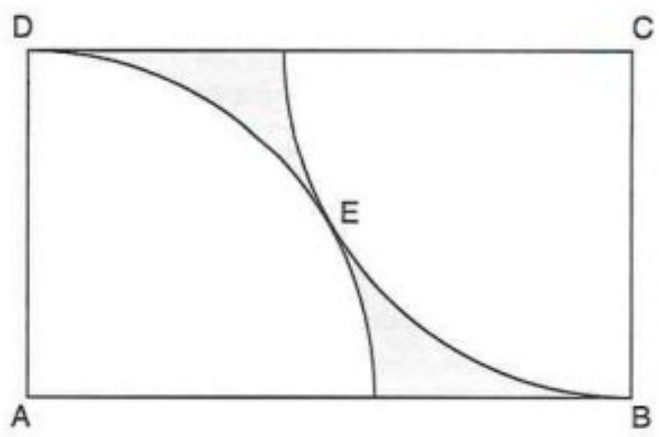
$|PB| = |BO| = |OA|$

$|PC| = 12$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $4\sqrt{3} - \frac{2\pi}{3}$ B) $12\sqrt{3} - 8\pi$ C) $2\sqrt{3} - 2\pi$
D) $24\sqrt{3} - 8\pi$ E) $2\sqrt{3} - \frac{2\pi}{3}$

34.



ABCD dikdörtgen *(rectangle)*

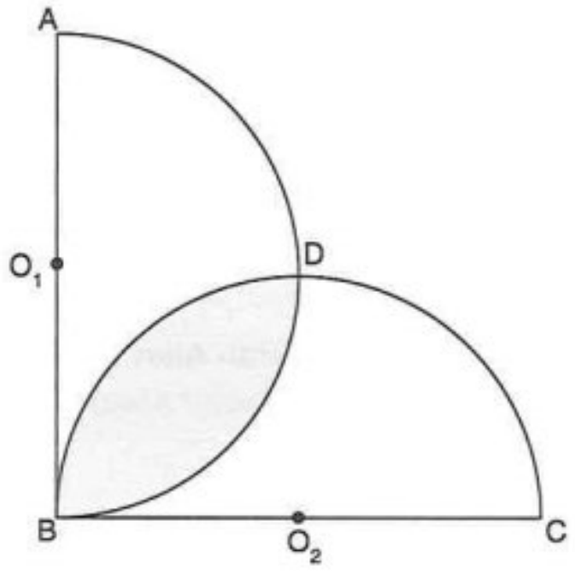
A, C merkez *(center)*

$|AD| = 6$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $36\sqrt{3} - 18\pi$ B) $36\sqrt{3} - 36\pi$ C) $18\sqrt{3} - 18\pi$
D) $18\sqrt{3} - 36\pi$ E) $18\sqrt{3} - 9\pi$

35.



O_1, O_2 merkez *(center)*

$|AO_1| = |BO_2|$

$|BC| = 8$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $2\pi - 4$ B) $\pi - 2$ C) $8\pi - 16$
D) $4\pi - 8$ E) $8\pi - 4$

36.

O, merkez *(center)*

$[AO] \perp [OB]$

$|AC| = 8$ br

$|BC| = 6$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $14\sqrt{3} - 6\pi$ B) $28 - 12\pi$ C) $28\sqrt{3} - 12\pi$
D) $28 - 14\pi$ E) $28\sqrt{3} - 14\pi$

25. A	26. C	27. C	28. B	29. A	30. A
31. D	32. B	33. D	34. A	35. C	36. C

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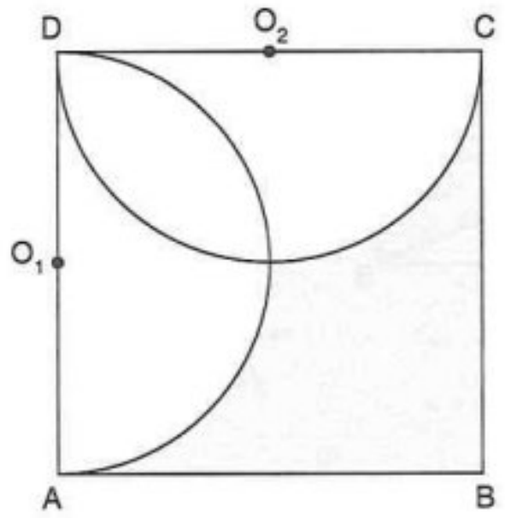
37.



O_1, O_2 merkez *(center)*

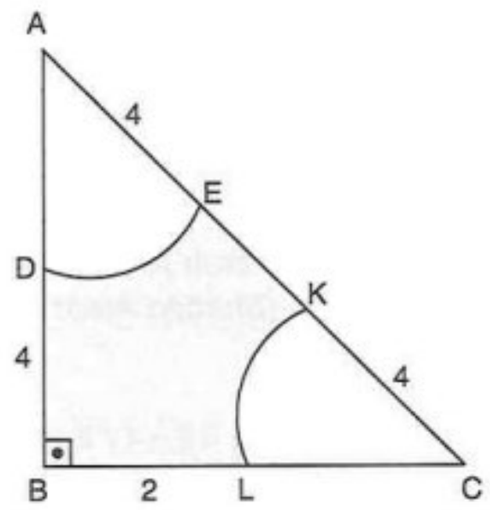
ABCD kare *(square)*

$|AB| = 4$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $8-4\pi$ B) $12-2\pi$ C) $12-4\pi$
D) $16-2\pi$ E) $16-4\pi$

38.



A, C merkez *(center)*

$[AB] \perp [BC]$

$|AE| = |KC| = 4$ br

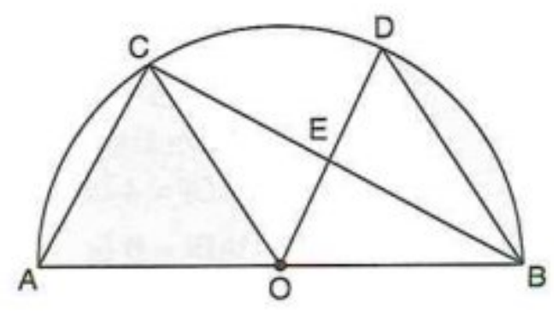
$|BD| = 4$ br

$|BL| = 2$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $16-4\pi$ B) $12-8\pi$ C) $24-8\pi$
D) $24-4\pi$ E) $12-4\pi$

39.



O merkez *(center)*

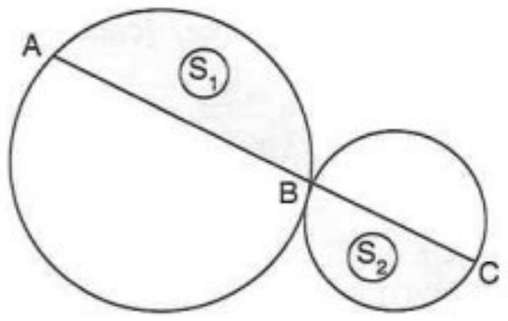
$|AC| = |OB| = 4$ br

$[OC] \,/\!/\, [DB]$

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $\frac{4\pi}{3}$ B) $\frac{8\pi}{3}-4$ C) $\frac{16\pi}{3}$
D) $\frac{16\pi}{3}-2$ E) $\frac{8\pi}{3}$

40.



$|AB| = 6$ br

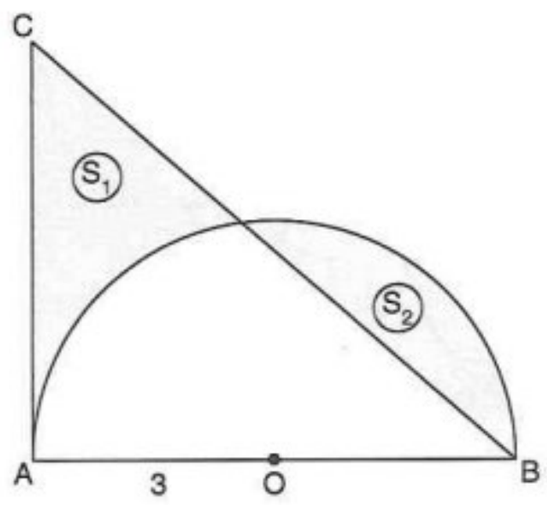
$|BC| = 4$ br

$S_1 = 27\pi$ br^2

⇒ **S_2 = ?**

A) 8 B) 9 C) 12 D) 16 E) 18

41.



O, merkez *(center)*

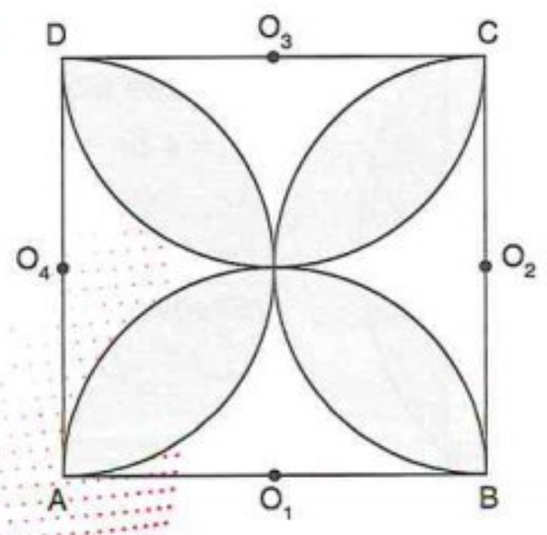
$|AO| = 3$ br

$S_1 = S_2$

⇒ **$|AC|$ = ?**

A) $\frac{3\pi}{2}$ B) 2π C) $\frac{5\pi}{2}$ D) 3π E) 6π

42.



O_1, O_2, O_3, O_4 merkez *(center)*

ABCD kare (square)

$|AB| = 8$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $4\pi-8$ B) $8\pi-16$ C) $12\pi-24$
D) $24\pi-48$ E) $32\pi-64$

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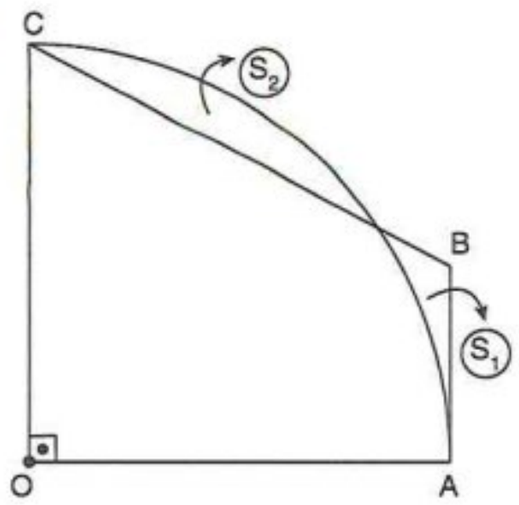
43.



O merkez *(center)*

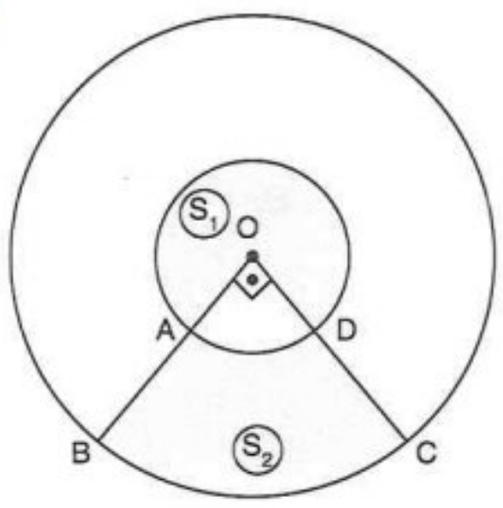
$S_1 = S_2$

$|AB| = 3$ br

⇒ $|OA| = ?$

A) $\frac{4}{\pi+3}$ B) $\frac{6}{\pi-2}$ C) $\frac{3}{\pi-2}$ D) $\frac{6}{\pi-3}$ E) $\frac{2}{\pi-3}$

44.



O merkez *(center)*

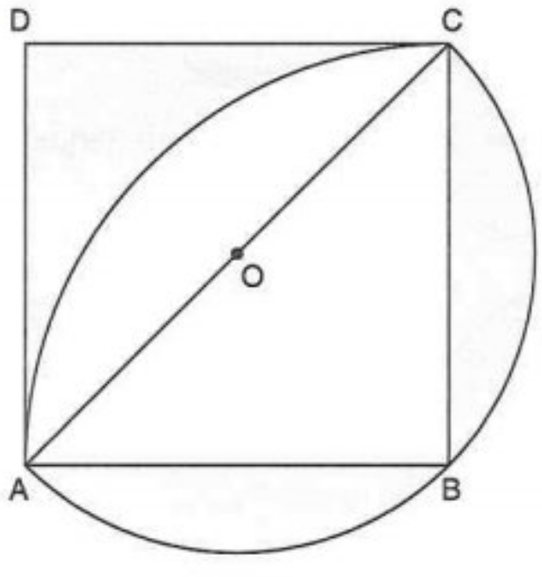
$[OB] \perp [OC]$

$2|OA| = |AB|$

⇒ $\frac{S_1}{S_2} = ?$

A) $\frac{1}{8}$ B) $\frac{1}{4}$ C) $\frac{3}{8}$ D) $\frac{3}{4}$ E) $\frac{1}{3}$

45.



O, B merkez *(center)*

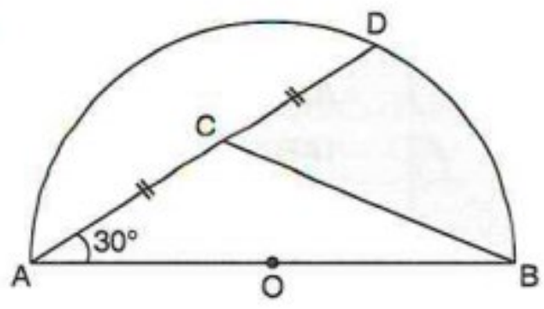
ABCD kare *(square)*

$|AC| = 4$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 2π B) 4π C) 8π D) 4 E) 8

46.



O, merkez *(center)*

$m(\widehat{BAD}) = 30°$

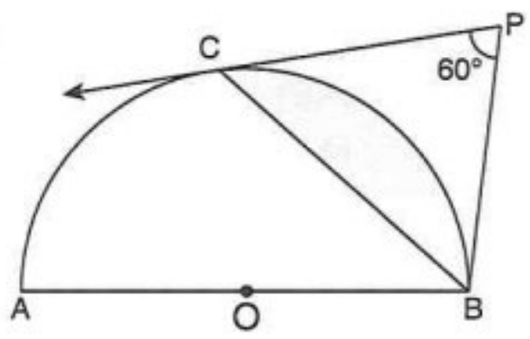
$|AC| = |CD|$

$|AO| = 4\sqrt{3}$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 6π B) 7π C) 8π D) 9π E) 12π

47.



O, merkez *(center)*

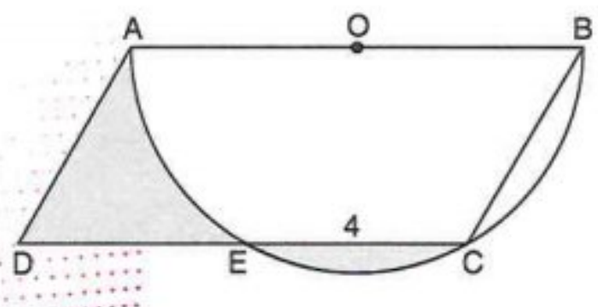
$m(\widehat{CPB}) = 60°$

$|BC| = 6$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $6\pi - 3$ B) $3\pi - 3\sqrt{3}$ C) $3\pi - 4\sqrt{3}$ D) $4\pi - 3$ E) $4\pi - 3\sqrt{3}$

48.



O, merkez *(center)*
ABCD paralelkenar *(parallelogram)*
$|EC| = 4$ br
$|AB| = 8$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 4 B) $4\sqrt{3}$ C) 6 D) 8 E) $8\sqrt{3}$

37. B	38. D	39. E	40. C	41. A	42. E
43. B	44. C	45. D	46. C	47. E	48. B

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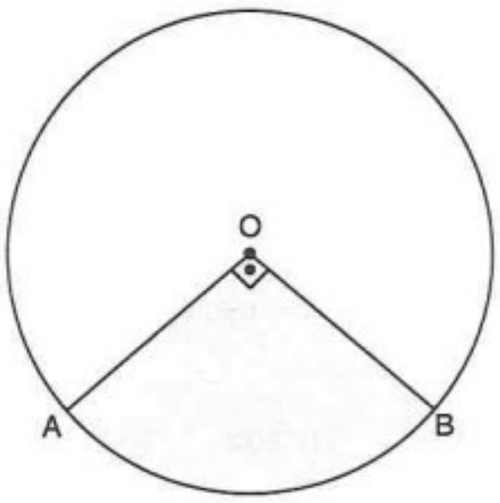
1.



O, merkez *(center)*

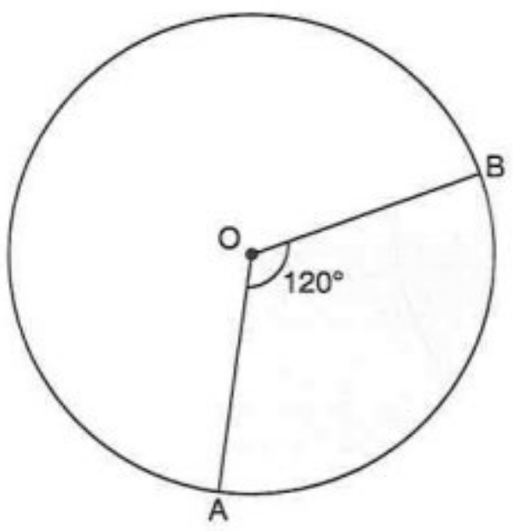
$[OA] \perp [OB]$

$|AO| = 6$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 6π B) 8π C) 9π D) 12π E) 18π

2.



O, merkez *(center)*

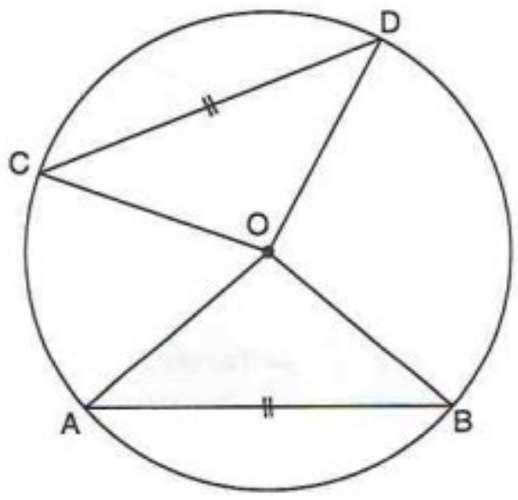
$m(\widehat{AOB}) = 120°$

$|\widehat{AB}| = 4\pi$

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 6π B) 8π C) 10π D) 12π E) 16π

3.



O, merkez *(center)*

$|AB| = |CD|$

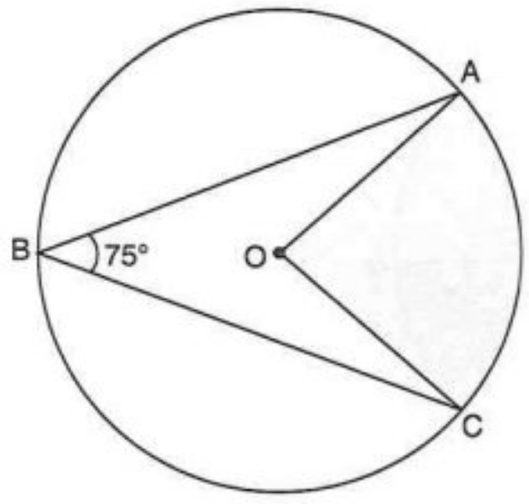
$m(\widehat{AOB}) = 40°$

$|OC| = 12$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 10π B) 12π C) 16π D) 18π E) 24π

4.



O, merkez *(center)*

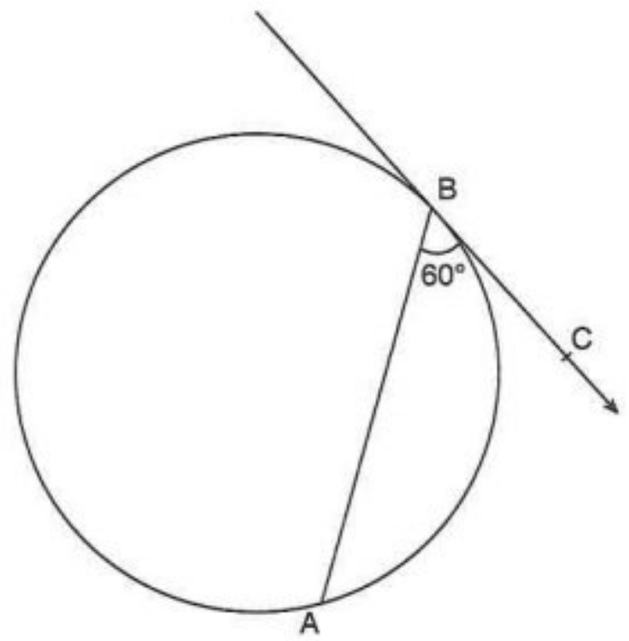
$m(\widehat{ABC}) = 75°$

$|OA| = 6$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 12π B) 15π C) 18π D) 20π E) 24π

5.



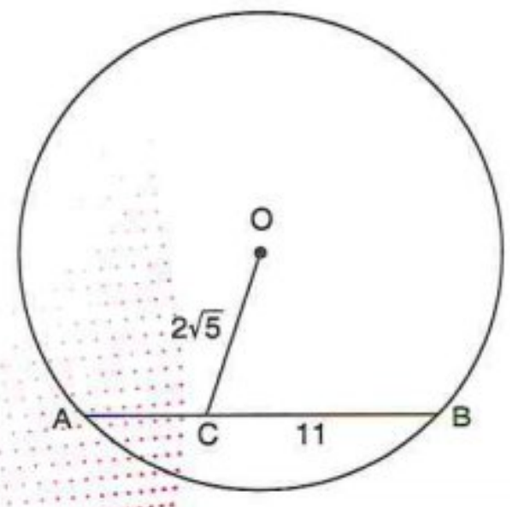
$m(\widehat{ABC}) = 60°$

$|AB| = 12$ br

⇒ **O Merkezli Dairenin Alanı = ?**
(Area of a circular region with a center O = ?)

A) 36π B) 48π C) 54π D) 60π E) 72π

6.



O, merkez *(center)*

$|AC| = 3$ br

$|CB| = 11$ br

$|OC| = 2\sqrt{5}$ br

⇒ **O Merkezli Dairenin Alanı = ?**
(Area of a circular region with a center O = ?)

A) 49π B) 50π C) 51π D) 52π E) 53π

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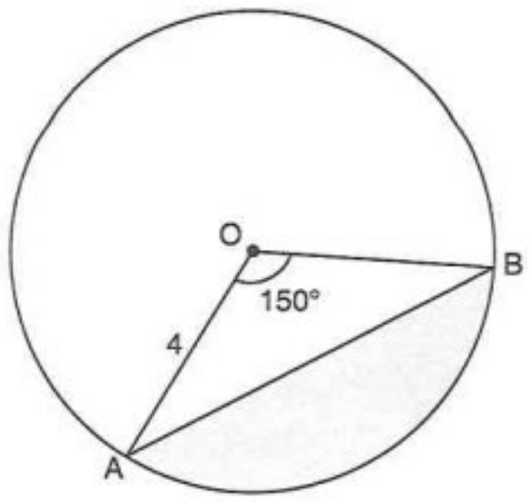
7.



O merkez *(center)*

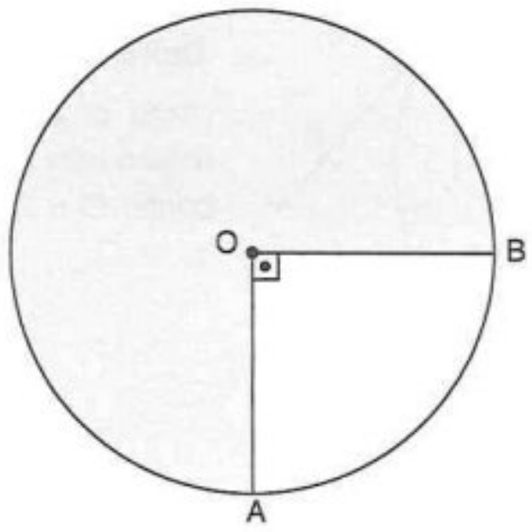
$m(\widehat{AOB}) = 150°$

$|OA| = 4$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $\frac{20\pi}{3} - 4$ B) $\frac{20\pi}{3} - 8$ C) $\frac{10\pi}{3} - 4$
D) $\frac{10\pi}{3} - 8$ E) $6\pi - 6$

8.



O, merkez *(center)*

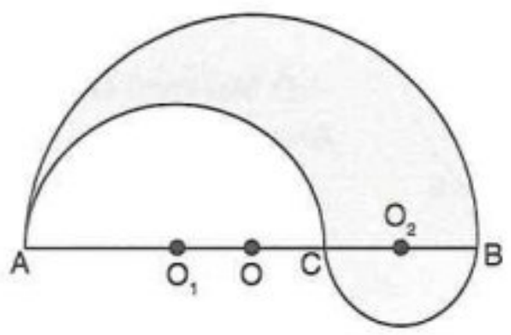
$[OA] \perp [OB]$

$|OA| = 8$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 36π B) 40π C) 48π D) 54π E) 60π

9.



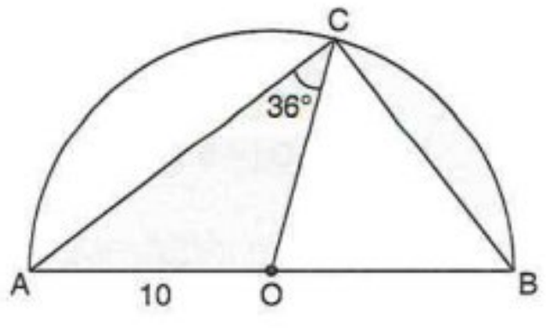
O, O_1, O_2, merkez *(center)*

$|OC| = |CO_2| = 4$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 14π B) 16π C) 18π D) 20π E) 48π

10.



O, merkez *(center)*

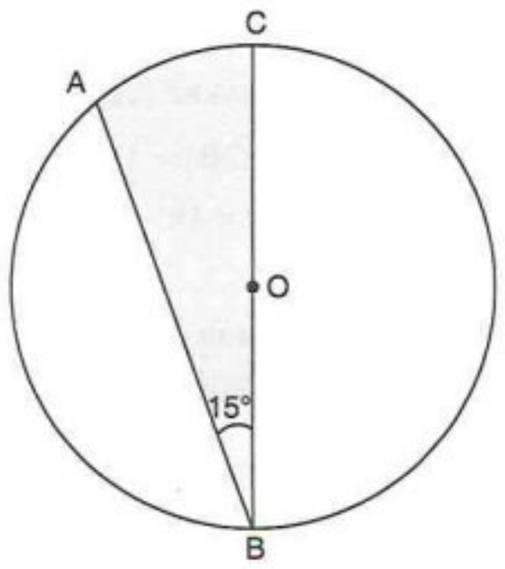
$m(\widehat{ACO}) = 36°$

$|AO| = 10$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 15π B) 20π C) 25π D) 30π E) 35π

11.



O, merkez *(center)*

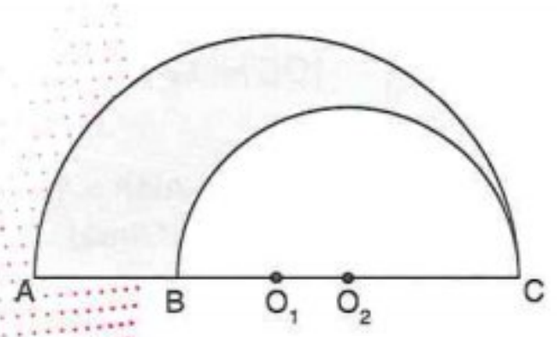
$m(\widehat{ABC}) = 15°$

$|OC| = 6$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $3\pi + 12$ B) $6\pi + 3$ C) $6\pi + 18$
D) $3\pi + 6$ E) $3\pi + 9$

12.



O_1, O_2 merkez *(center)*

$3|AB| = |BC| = 12$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 14π B) 16π C) 18π D) 20π E) 22π

1. C	2. D	3. C	4. B	5. B	6. E
7. A	8. C	9. E	10. B	11. E	12. A

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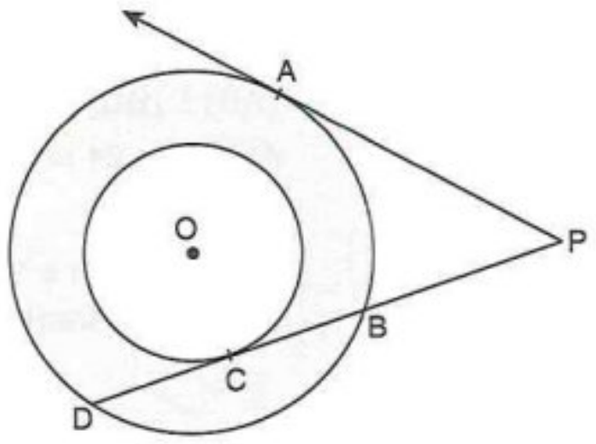
1.



O, merkez *(center)*

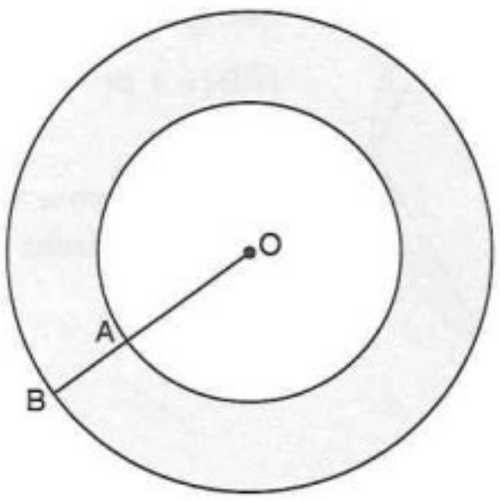
$|AP| = 2\sqrt{10}$ br

$|PB| = 4$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 3π B) 4π C) 6π D) 8π E) 9π

2.



O, merkez *(center)*

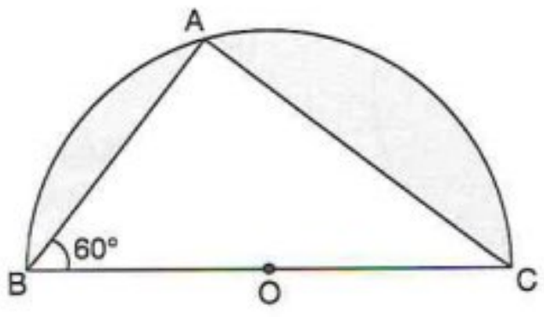
$|AB| = 1$ br

$|AO| = 3$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 7π B) 8π C) 9π D) 10π E) 11π

3.



O, merkez *(center)*

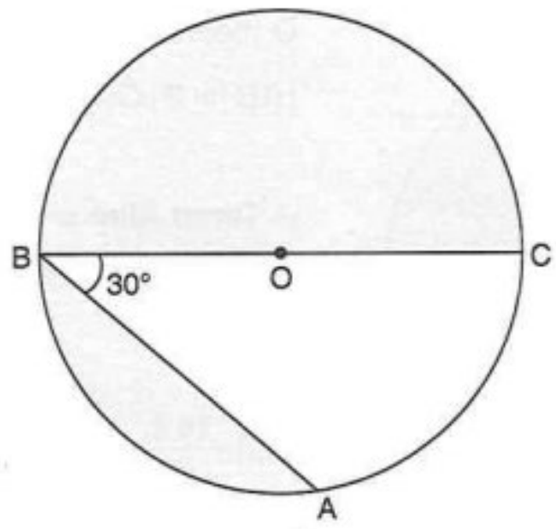
$m(A\widehat{B}C) = 60°$

$|AC| = 12$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $16\pi - 16\sqrt{3}$ B) $24\pi - 24\sqrt{3}$ C) $24\pi - 24$
D) $16\pi - 16$ E) $18\pi - 18\sqrt{3}$

4.



O, merkez *(center)*

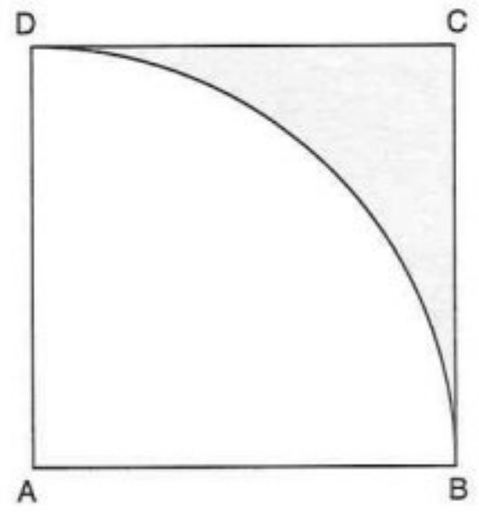
$m(A\widehat{B}C) = 30°$

$|\widehat{AC}| = 2\pi$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $36\pi - 18\sqrt{3}$ B) $36\pi - 9\sqrt{3}$ C) $6\pi + 9\sqrt{3}$
D) $30\pi - 9\sqrt{3}$ E) $30\pi - 18\sqrt{3}$

5.



ABCD kare *(square)*

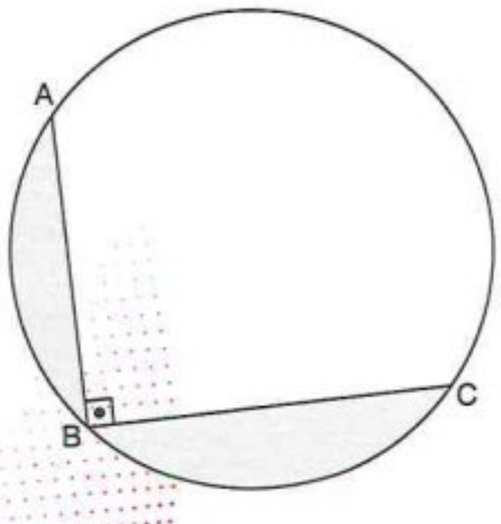
A, merkez *(center)*

$|DC| = 6$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $36 - 9\pi$ B) $36 - 12\pi$ C) $36 - 18\pi$
D) $18 - 9\pi$ E) $18 - 12\pi$

6.



$[AB] \perp [BC]$

$|AB| = 2|BC| = 8$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $5\pi - 8$ B) $10\pi - 8$ C) $10\pi - 16$
D) $5\pi - 4$ E) $10\pi - 12$

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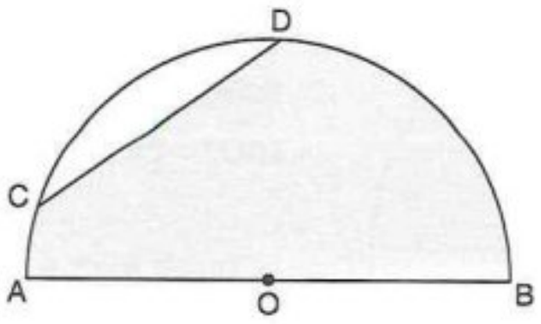
7.



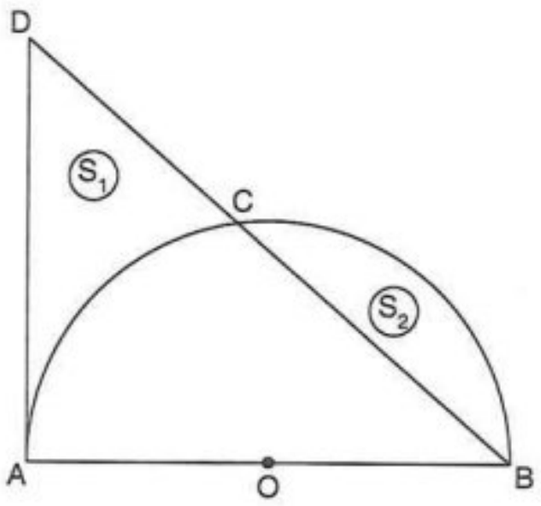
O merkez *(center)*

$|AB| = 2|CD| = 8$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $\frac{8\pi}{3} - 8\sqrt{3}$ B) $\frac{16\pi}{3} + 4\sqrt{3}$ C) $\frac{16\pi}{3} + 8\sqrt{3}$
D) $\frac{8\pi}{3} + 2\sqrt{3}$ E) $\frac{16\pi}{3} - 4\sqrt{3}$

8.



O merkez *(center)*

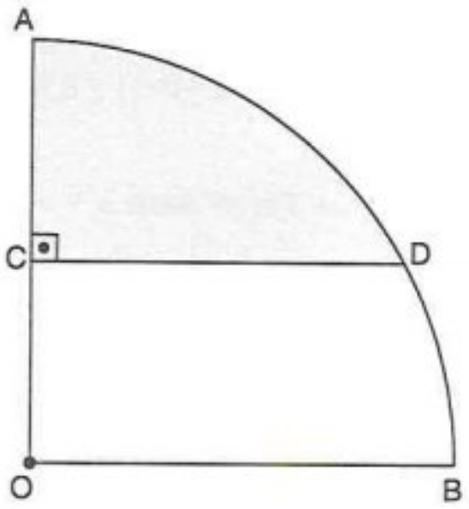
$S_1 = S_2$

$|OB| = 9$ br

⇒ **$|AD| = ?$**

A) 3π B) 4π C) $\frac{9\pi}{2}$ D) 6π E) $\frac{15\pi}{2}$

9.



O merkez *(center)*

$[DC] \perp [AO]$

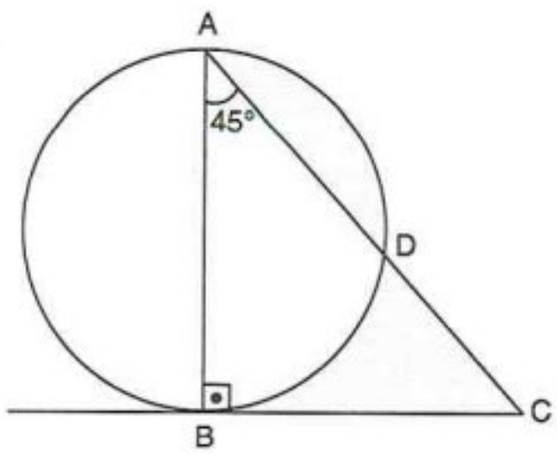
$|AC| = |CO|$

$|CD| = 2\sqrt{3}$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $16\pi - 12\sqrt{3}$ B) $4\pi - 4\sqrt{3}$ C) $4\pi - 2\sqrt{3}$
D) $\frac{8\pi}{3} - 2\sqrt{3}$ E) $\frac{8\pi}{3} - 4\sqrt{3}$

10.



$m(\widehat{BAC}) = 45°$

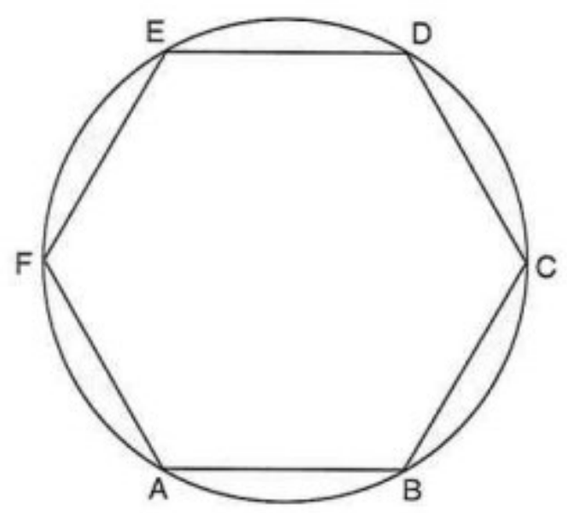
$[AB] \perp [BC]$

$A(ABC) = 24$ br^2

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $4\pi + 6$ B) 12 C) 12π
D) $3\pi + 9$ E) 8

11.



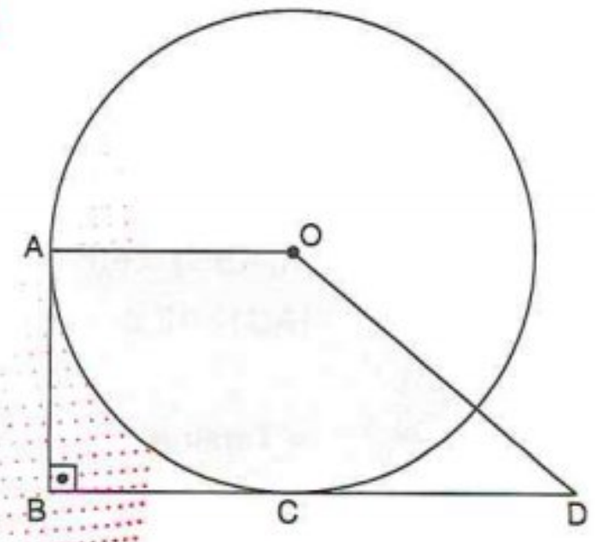
ABCDEF düzgün altıgen *(regular hexagon)*

$|AB| = 4$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $8\pi - 16\sqrt{3}$ B) $16\pi - 8\sqrt{3}$ C) $16\pi - 24\sqrt{3}$
D) $16\pi - 18\sqrt{3}$ E) $8\pi - 4\sqrt{3}$

12.



O merkez *(center)*

$[AB] \perp [BD]$

$|AO| = 6$ br

$|OD| = 4\sqrt{3}$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 9π B) 12π C) 15π D) 18π E) 24π

1. E	2. A	3. B	4. D	5. A	6. C
7. B	8. C	9. D	10. B	11. C	12. B

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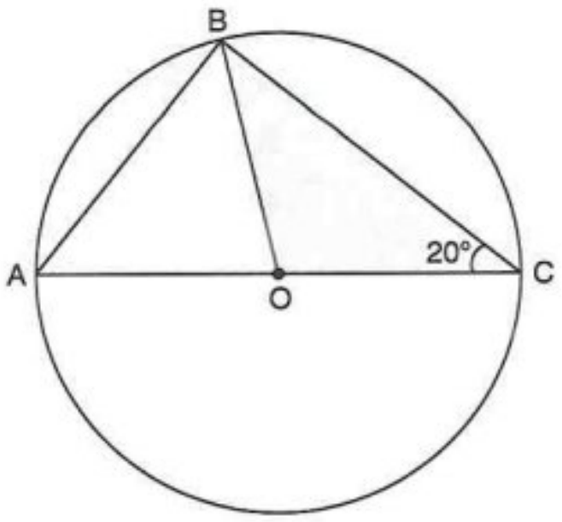
1.



O merkez *(center)*

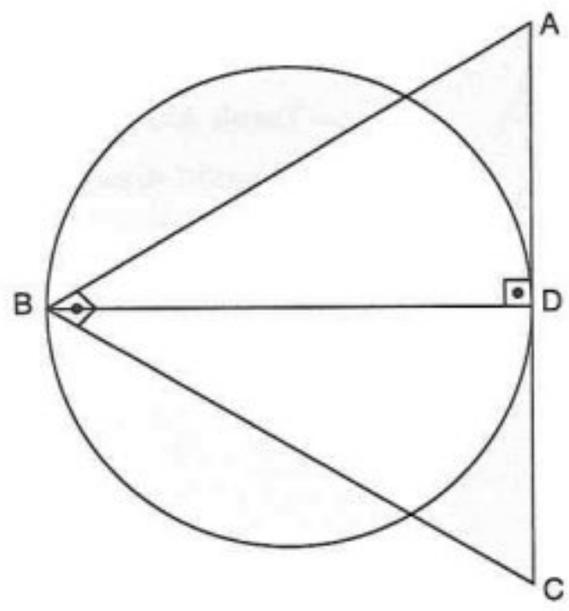
$m(\widehat{ACB}) = 20°$

$|AO| = 3$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) π B) 2π C) 3π D) 4π E) 6π

2.



$[AB] \perp [BC]$

$[BD] \perp [AC]$

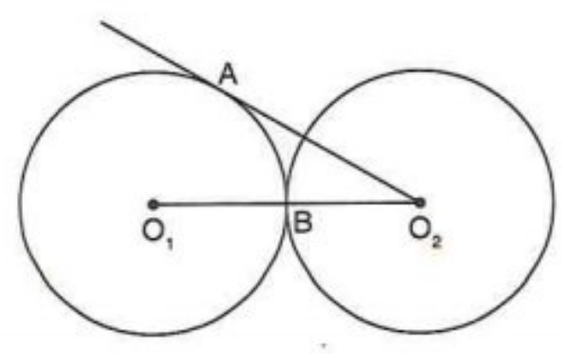
$|AB| = |BC|$

$|AC| = 8$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 8π B) 8 C) 12 D) 12π E) 16

3.



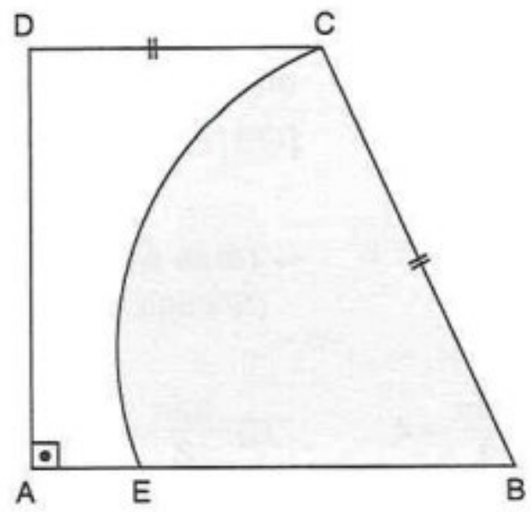
O_1, O_2 merkez *(center)*

$|O_1B| = |BO_2| = 6$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $18 - 9\pi$ B) $12\sqrt{3} - 9\pi$ C) $18\sqrt{3} - 18\pi$
D) $18 - 12\pi$ E) $18\sqrt{3} - 9\pi$

4.



B merkez (center)

ABCD yamuk (trapezoid)

$[AD] \perp [AB]$

$|DC| = |BC|$

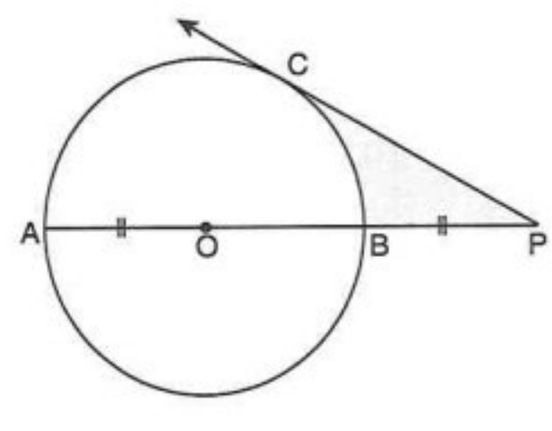
$|AE| = 4$ br

$|AD| = 4\sqrt{3}$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $\frac{16\pi}{3}$ B) 6π C) $\frac{32\pi}{3}$ D) 12π E) $\frac{64\pi}{3}$

5.



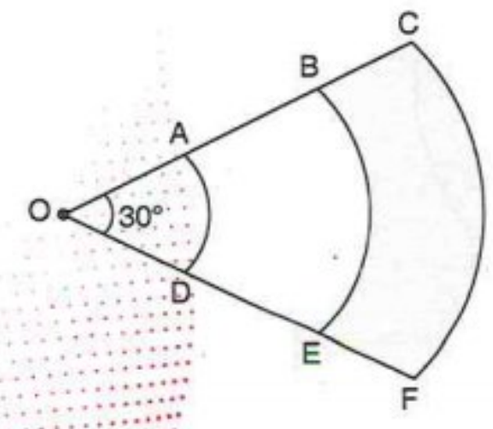
O merkez *(center)*

$|AO| = |BP| = 4\sqrt{3}$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $24\sqrt{3} - 8\pi$ B) $24\sqrt{3} - 6\pi$ C) $24\sqrt{3} - 12\pi$
D) $12\sqrt{3} - 8\pi$ E) $12\sqrt{3} - 6\pi$

6.



O merkez *(center)*

$m(\widehat{COF}) = 30°$

$|AO| = |AB| = |BC|$

$|\widehat{BE}| = \sqrt{3}\pi$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $\frac{9\pi}{4}$ B) 3π C) 5π D) $\frac{27\pi}{4}$ E) $\frac{45\pi}{4}$

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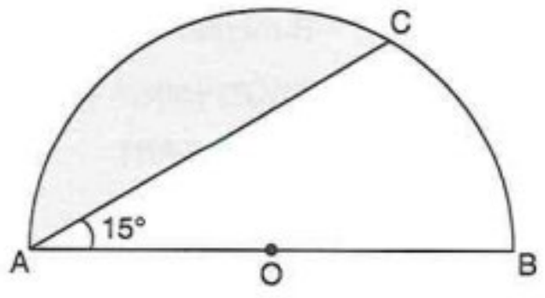
7.



O merkez *(center)*

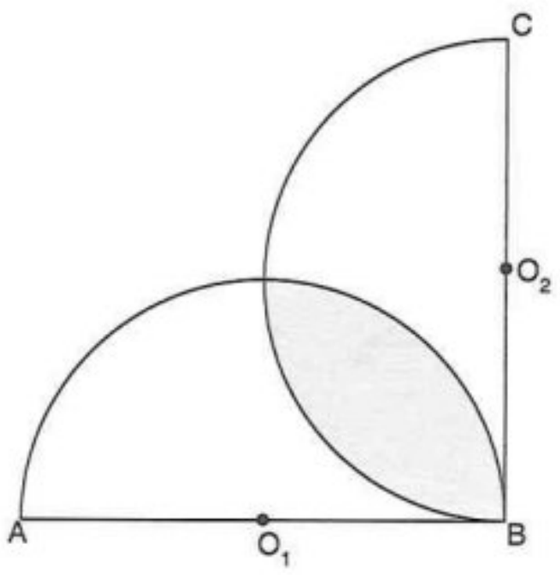
$m(\widehat{CAB}) = 15°$

$|OB| = 4$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $5\pi - 4$ B) $\frac{10\pi}{3} - 4$ C) $\frac{20\pi}{3} - 8$
D) $\frac{20\pi}{3} - 4$ E) $\frac{10\pi}{3} - 8$

8.



O_1, O_2 merkez *(center)*

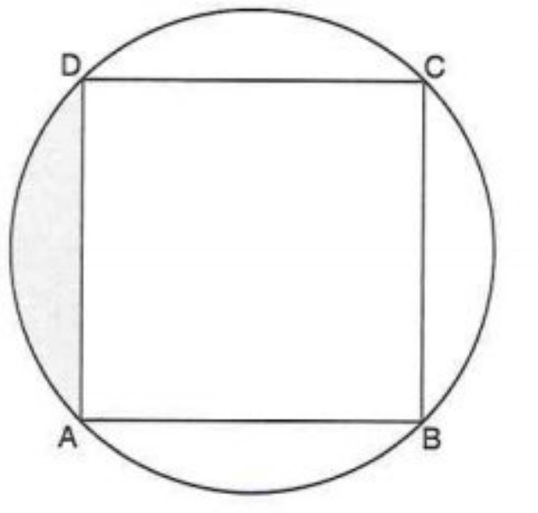
$|AO_1| = |O_2C|$

$|AB| = 12$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $12\pi - 9$ B) $9\pi - 18$ C) $9\pi - 9$
D) $18\pi - 9$ E) $18\pi - 36$

9.



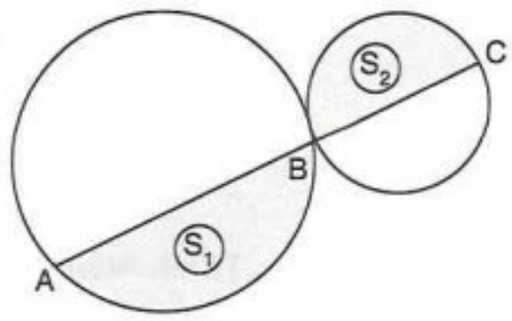
ABCD kare *(square)*

$|AB| = 6$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $6\pi - 9$ B) $9\pi - 9$ C) $\frac{9\pi}{2} - 18$
D) $\frac{9\pi}{2} - 9$ E) $9\pi - 18$

10.

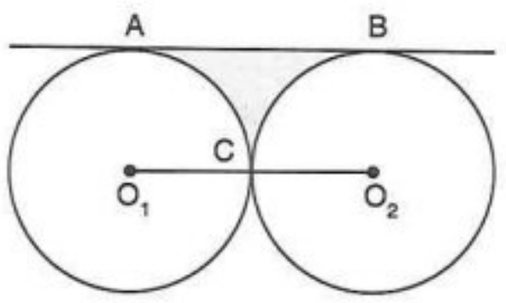


$\frac{|AB|}{|AC|} = \frac{3}{5}$

$\Rightarrow \frac{S_1}{S_2} = ?$

A) $\frac{9}{4}$ B) $\frac{4}{9}$ C) $\frac{9}{25}$ D) $\frac{25}{9}$ E) $\frac{3}{2}$

11.



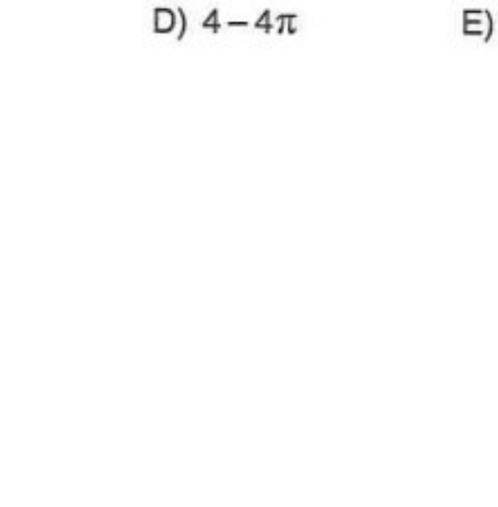
O_1, O_2 merkez *(center)*

$|O_1C| = |O_2C| = 2$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $2 - \pi$ B) $4 - 2\pi$ C) $8 - 4\pi$
D) $4 - 4\pi$ E) $8 - 2\pi$

12.



O merkez *(center)*

$|AO| = 8$ br

$\Rightarrow \frac{S_1}{|\widehat{AB}|} = ?$

A) 2 B) 4 C) 8 D) 12 E) 16

1. A	2. B	3. E	4. C	5. A	6. E
7. D	8. E	9. D	10. A	11. E	12. B

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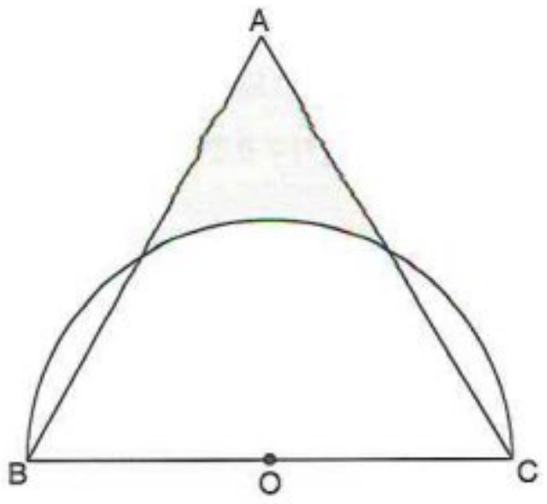
الممسوحة ضوئيا بـ CamScanner

1.



O merkez *(center)*

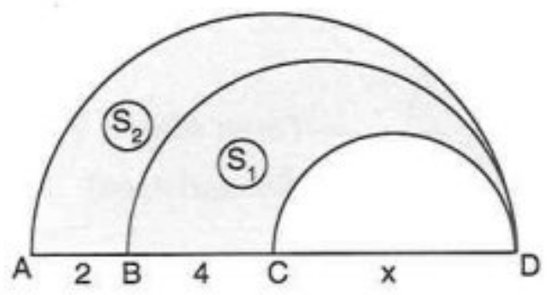
$|AB|=|AC|=|BC|$

$|AB|=4$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $\frac{2\sqrt{3}-4\pi}{3}$ B) $\frac{4\sqrt{3}-\pi}{3}$ C) $\frac{6\sqrt{3}-\pi}{3}$ D) $\frac{6\sqrt{3}-2\pi}{3}$ E) $\frac{4\sqrt{3}-2\pi}{3}$

2.



[AD], [BD], [CD]

çap *(diameter)*

$|AB|=2$ br

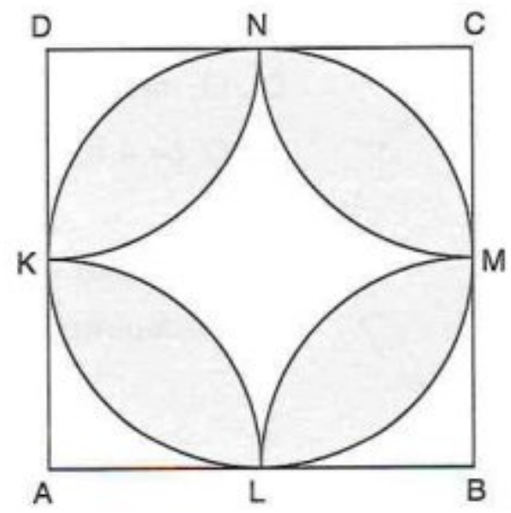
$|BC|=4$ br

$S_1 = S_2$

⇒ **$|CD|=x=?$**

A) $\frac{1}{2}$ B) 1 C) $\frac{3}{2}$ D) 2 E) $\frac{5}{2}$

3.



A, B, C, D merkez *(center)*

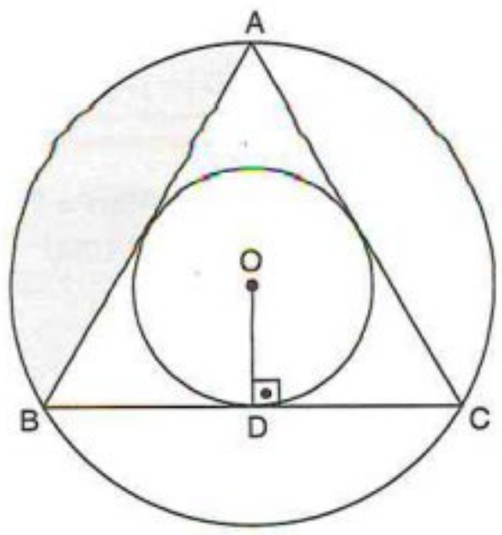
ABCD kare *(square)*

$|AB|=8$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $16(\pi+2)$ B) $64(\pi-2)$ C) $32(\pi+2)$ D) $16(\pi-2)$ E) $32(\pi-2)$

4.



O merkez *(center)*

$[OD] \perp [BC]$

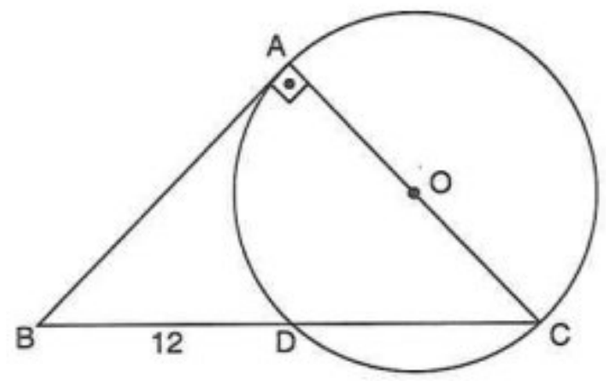
$|AB|=|AC|=|BC|$

$|OD|=1$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $4\pi-3$ B) $4\pi-3\sqrt{3}$ C) $\frac{4\pi}{3}-\sqrt{3}$ D) $2\pi-2\sqrt{3}$ E) $\frac{4\pi}{3}-2\sqrt{3}$

5.



O merkez *(center)*

$[AB] \perp [AC]$

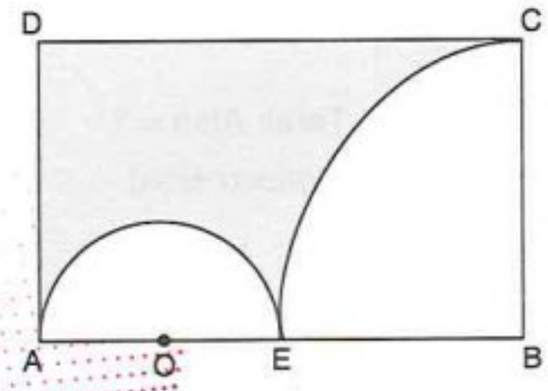
$|BD|=12$ br

$|DC|=3$ br

⇒ **A(ABC) = ?**

A) 45 B) 42 C) 40 D) 36 E) 30

6.



ABCD dikdörtgen *(rectangle)*

O, B merkez *(center)*

$2|BC|=|DC|=8$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $16-4\pi$ B) $32-6\pi$ C) $32-4\pi$ D) $16-6\pi$ E) $32-8\pi$

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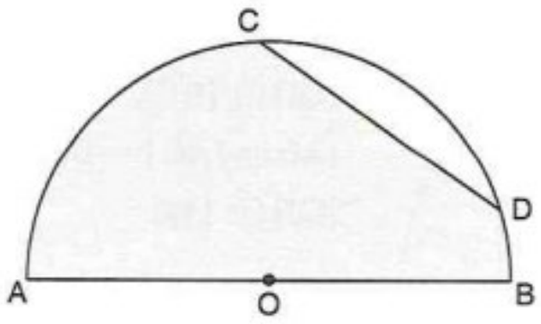
7.



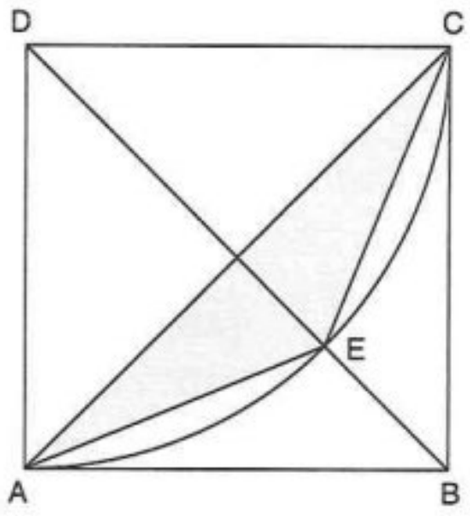
O, merkez *(center)*

$2|CD| = |AB| = 24$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $12(4\pi + 3\sqrt{3})$ B) $12(3\pi + 4\sqrt{3})$
C) $24(2\pi + \sqrt{3})$ D) $24(3\pi + 4\sqrt{3})$
E) $6(3\pi + 4\sqrt{3})$

8.



D, merkez *(center)*

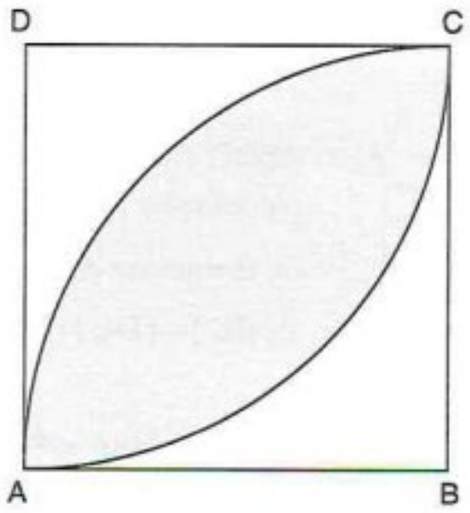
ABCD kare *(square)*

$|AB| = 6$ br

⇒ **A(AEC) = ?**

A) $3\sqrt{2} - 3$ B) $6\sqrt{2} - 6$ C) $9\sqrt{2} - 9$
D) $12\sqrt{2} - 12$ E) $18\sqrt{2} - 18$

9.



B, D merkez *(center)*

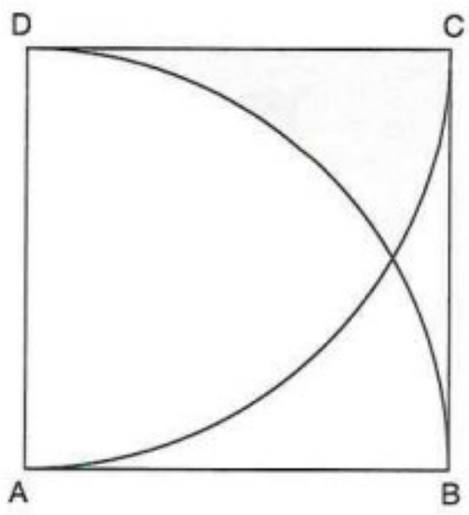
ABCD kare *(square)*

$|AB| = 2\sqrt{2}$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $4(\pi - 4)$ B) $4(\pi - 2)$ C) $2(2\pi - 3)$
D) $8(\pi - 1)$ E) $2(\pi - 2)$

10.



A, D merkez *(center)*

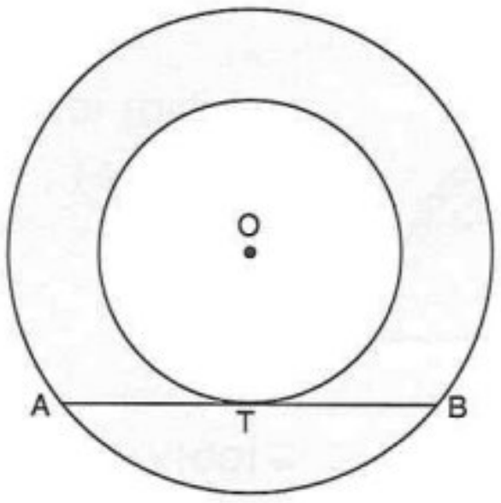
ABCD kare *(square)*

$|AB| = 6$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $9\sqrt{3} - 6\pi$ B) $9 - 3\sqrt{3}\pi$ C) $6\sqrt{3} - 3\pi$
D) $6\sqrt{3} - 6\pi$ E) $9\sqrt{3} - 3\pi$

11.



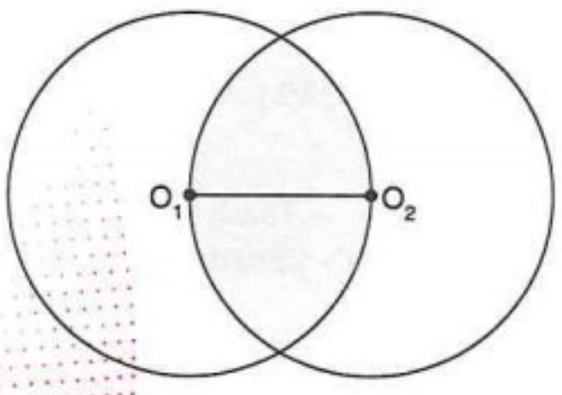
O merkez *(center)*

$|AB| = 6\sqrt{2}$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 18π B) 24π C) 36π D) 48π E) 72π

12.



O_1, O_2 merkez *(center)*

$|O_1O_2| = 4$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $8(4\pi - \sqrt{3})$ B) $8(2\pi - \sqrt{3})$ C) $4\left(\frac{2\pi}{3} - \sqrt{3}\right)$
D) $8\left(\frac{4\pi}{3} - \sqrt{3}\right)$ E) $4\left(\frac{4\pi}{3} - \sqrt{3}\right)$

1. D	2. B	3. E	4. C	5. A	6. B
7. A	8. E	9. B	10. E	11. A	12. D

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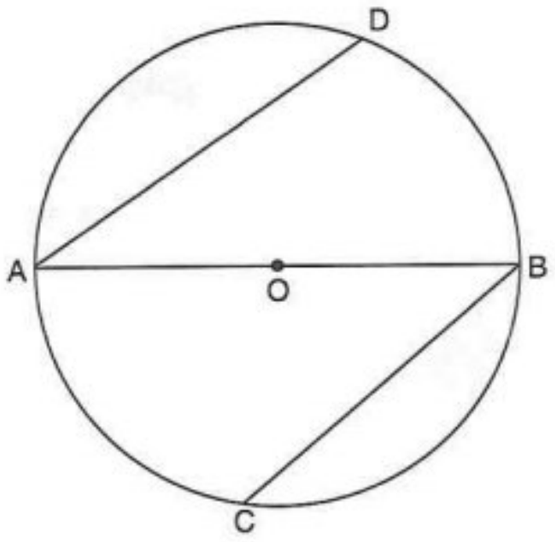
1.



O merkez *(center)*

$m(\widehat{DAB}) = 30°$

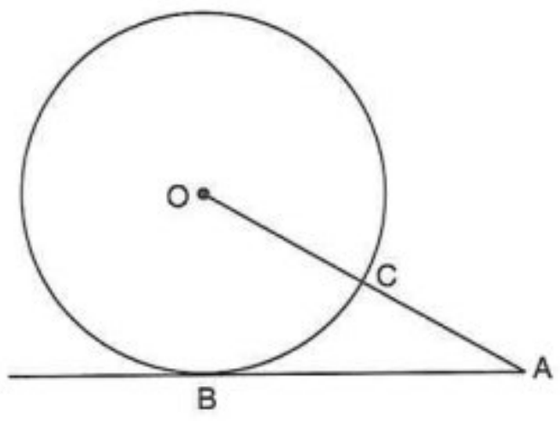
$m(\widehat{ABC}) = 60°$

$|AB| = 8$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $2(\pi-\sqrt{3})$ B) $4(\pi-\sqrt{3})$ C) $8(\pi-\sqrt{3})$
D) $12(\pi-\sqrt{3})$ E) $16(\pi-\sqrt{3})$

2.



O merkez *(center)*

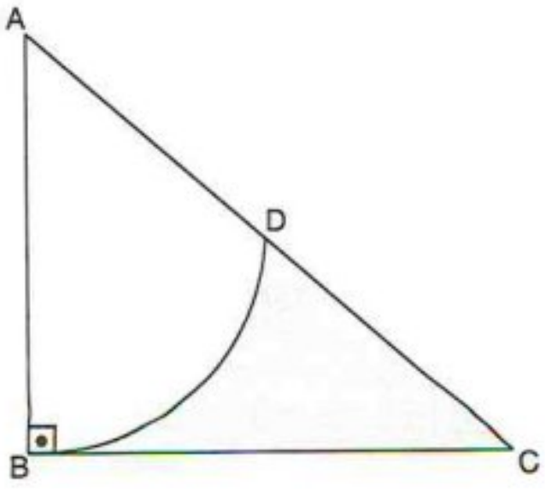
$m(\widehat{OAB}) = 30°$

$|AC| = 6$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $12\sqrt{3}-4\pi$ B) $18\sqrt{3}-9\pi$ C) $9\sqrt{3}-9\pi$
D) $18\sqrt{3}-6\pi$ E) $9\sqrt{3}-6\pi$

3.



A merkez *(center)*

$[AB] \perp [BC]$

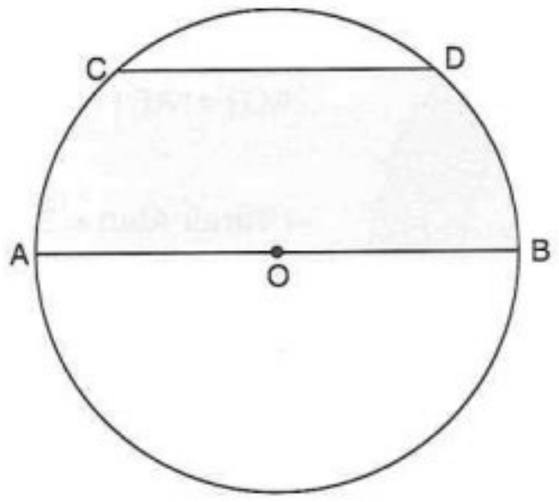
$|AB| = |BC|$

$|AC| = 8$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $16-4\pi$ B) $16-8\pi$ C) $8-4\pi$
D) $8-8\pi$ E) $4+8\pi$

4.



O merkez *(center)*

$[CD] \,//\, [AB]$

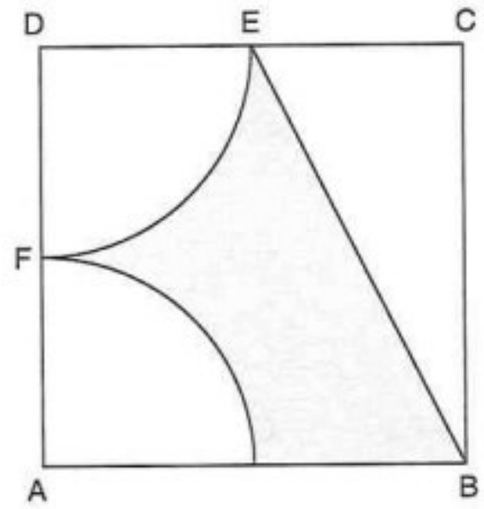
$m(\widehat{AC}) = m(\widehat{CD})$

$|AB| = 12$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $9\pi-6\sqrt{3}$ B) $12\pi-9\sqrt{3}$ C) $12\pi+9\sqrt{3}$
D) $12\pi+6\sqrt{3}$ E) $9\pi-9\sqrt{3}$

5.



A, D merkez *(center)*

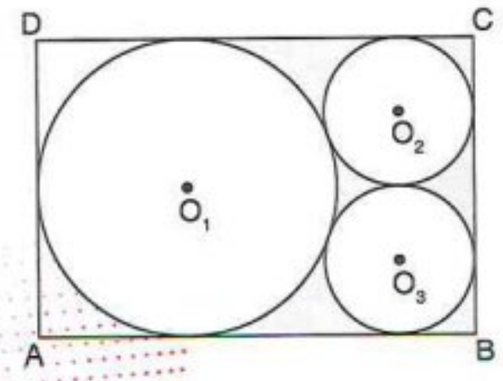
ABCD kare *(square)*

$|DF| = |AF| = 4$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $4(12-\pi)$ B) $6(8-\pi)$ C) $8(6-\pi)$
D) $6(3-\pi)$ E) $8(4-\pi)$

6.



O_1, O_2, O_3 merkez *(center)*

ABCD dikdörtgen *(rectangle)*

$|BC| = 8$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $8(1+2\sqrt{2}-\pi)$ B) $16(2+\sqrt{2}-\pi)$
C) $16(1+\sqrt{2}-\pi)$ D) $8(1+\sqrt{2}-\pi)$
E) $16(1+2\sqrt{2}-\pi)$

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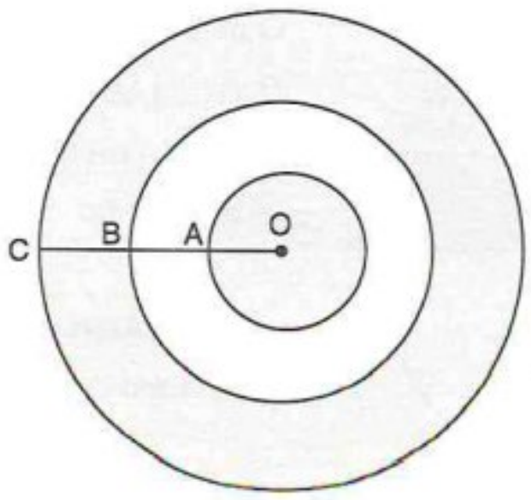
7.



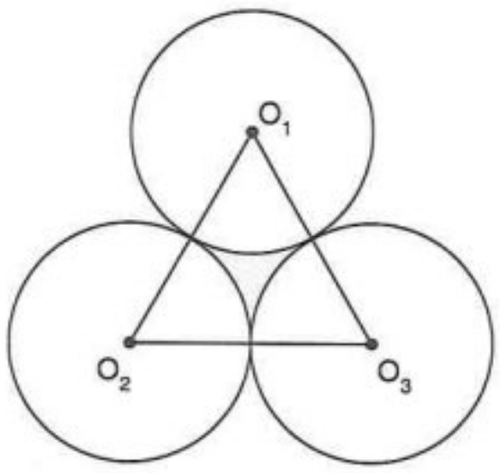
O merkez *(center)*

$|AO| = |AB| = |BC| = 2$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 18π B) 20π C) 22π D) 24π E) 26π

8.



O_1, O_2, O_3 merkez *(center)*

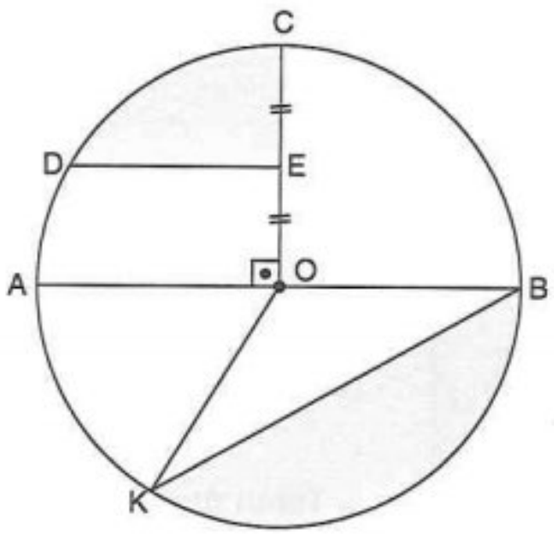
$|O_1O_2| = |O_2O_3| = 4$ br

$|O_1O_3| = 4$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $4\sqrt{3} - \pi$ B) $4\sqrt{3} - 2\pi$ C) $4\sqrt{3} - 4\pi$
D) $4\sqrt{3} - 6\pi$ E) $4\sqrt{3} - 8\pi$

9.



O, merkez *(center)*

$[OC] \perp [AB]$

$[DE] \parallel [AB]$

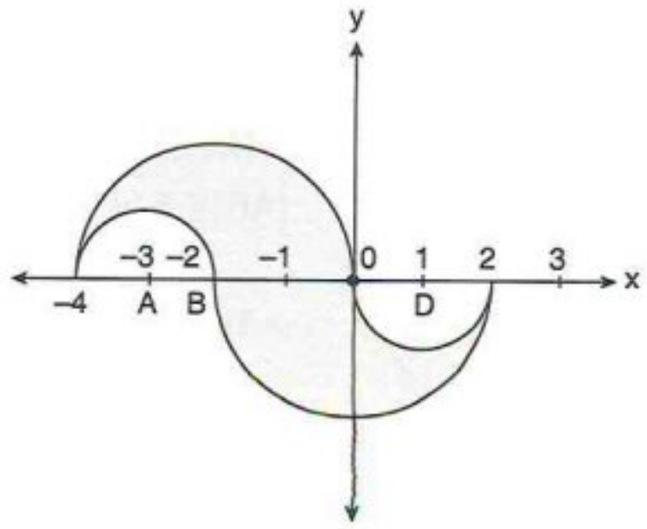
$|CE| = |EO|$

$2|DE| = |KB| = 6$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $15\pi - \frac{9\sqrt{3}}{2}$ B) $\frac{12\pi - 3\sqrt{3}}{2}$ C) $6\pi - \frac{9\sqrt{3}}{2}$
D) $\frac{15\pi + 9\sqrt{3}}{2}$ E) $12\pi + \frac{3\sqrt{3}}{2}$

10.

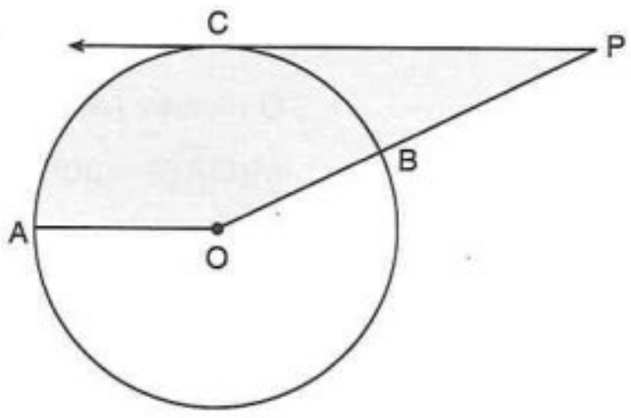


A, B, O, D merkez *(center)*

⇒ **Taralı Alan = ?**
(Shaded Area)

A) π B) 2π C) 3π D) 4π E) 5π

11.



O merkez *(center)*

$[OA] \parallel [PC]$

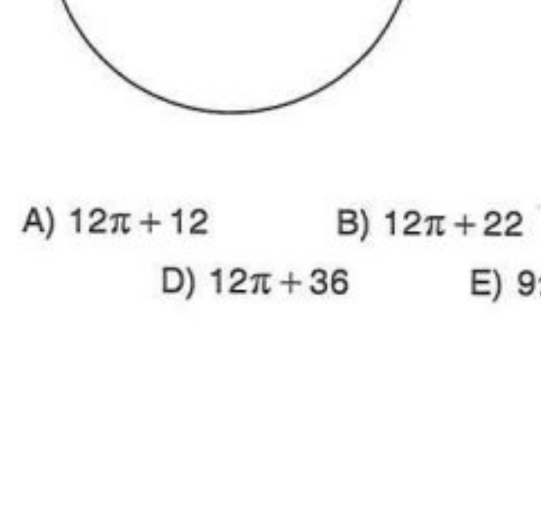
$|PC| = 8$ br

$|PB| = 4$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $12\pi + 12$ B) $12\pi + 22$ C) $9\pi + 36$
D) $12\pi + 36$ E) $9\pi + 24$

12.



ABCD kare *(square)*

A, C merkez *(center)*

$|AB| = 8$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $3\pi + 32$ B) 16 C) 16π
D) 32 E) 32π

1. C	2. D	3. A	4. C	5. C	6. E
7. D	8. B	9. C	10. C	11. E	12. D

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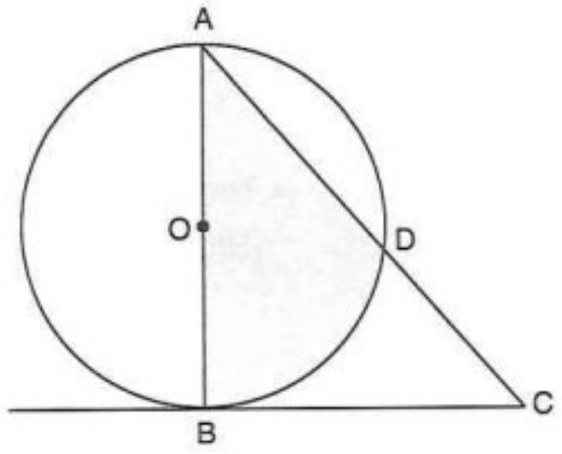
1.



O, merkez *(center)*

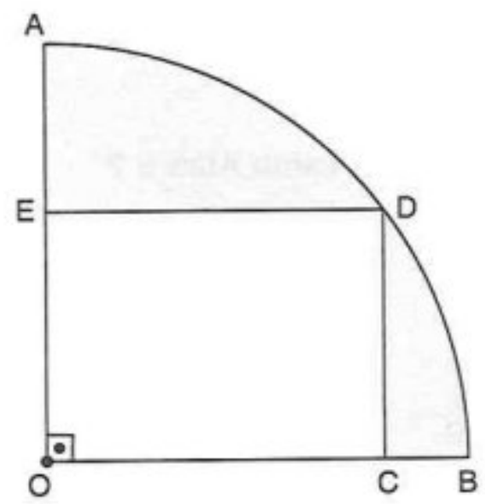
$|AB| = |BC|$

$|DC| = 2$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $\frac{\pi+4}{2}$ B) $\frac{\pi-3}{2}$ C) $\frac{\pi+3}{2}$ D) $\frac{\pi-4}{2}$ E) $\frac{\pi+2}{2}$

2.



O, merkez *(center)*

OCDE dikdörtgen *(rectangle)*

$[AO] \perp [OB]$

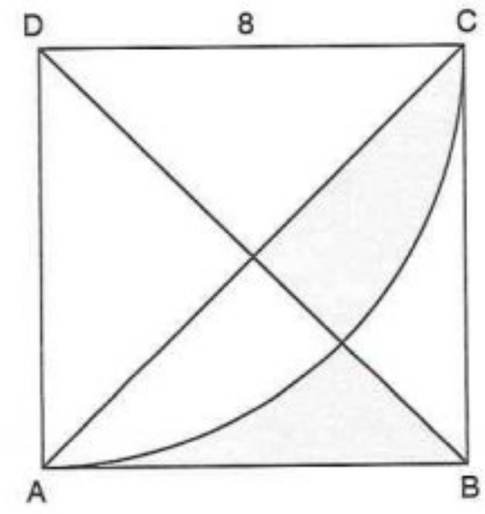
$|OE| = 3$ br

$|AE| = 2$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $\frac{10\pi}{3}-4$ B) $\frac{25\pi}{4}-12$ C) $\frac{25\pi}{4}-6$ D) $5\pi-12$ E) $5\pi-6$

3.



O merkez *(center)*

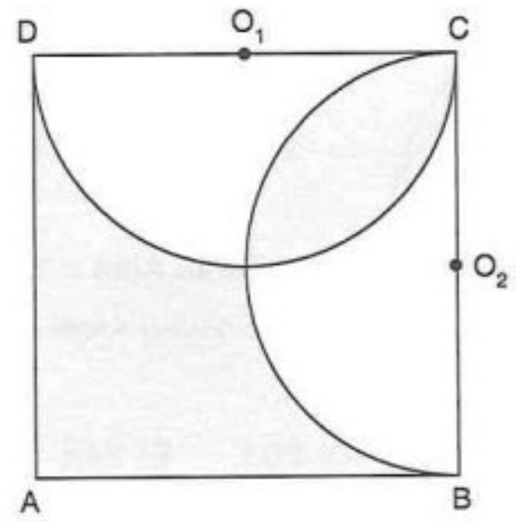
ABCD kare *(square)*

$|DC| = 8$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) $4\pi+8$ B) 8 C) 8π D) 16 E) 16π

4.



O_1, O_2 merkez *(center)*

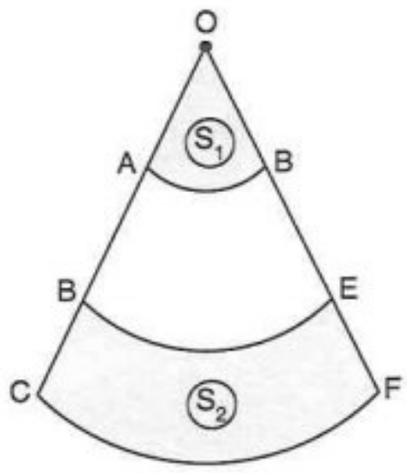
ABCD kare *(square)*

$|O_1C| = 4$ br

⇒ **Taralı Alan = ?**
(Shaded Area)

A) 32π B) 32 C) $16+8\pi$ D) $14+8\pi$ E) 16

5.



O, merkez *(center)*

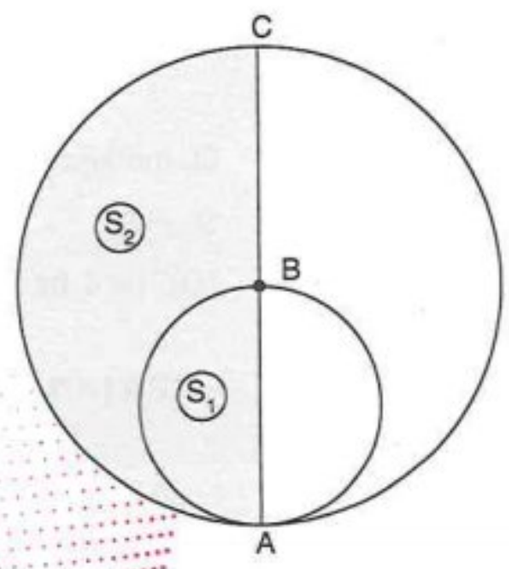
$2|OA| = |AB| = 2|BC|$

$S_2 = 56$ br²

⇒ $S_1 = ?$

A) 6 B) 7 C) 8 D) 9 E) 10

6.



$3|AB| = 2|BC|$

⇒ $\frac{S_1}{S_2} = ?$

A) $\frac{4}{21}$ B) $\frac{4}{25}$ C) $\frac{2}{3}$ D) $\frac{4}{9}$ E) $\frac{2}{5}$

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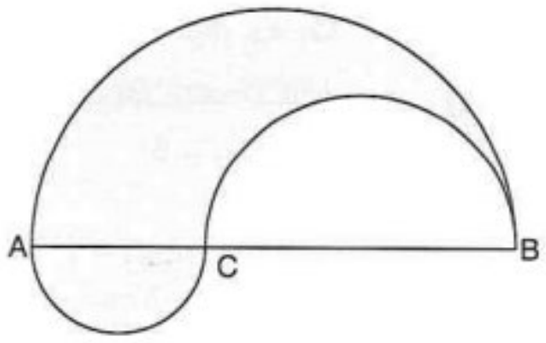
7.



[AB], [AC], [CB]

çap *(diameter)*

$2|AC| = |CB| = 8$ br

⇒ **Taralı Alan = ?**

(Shaded Area)

A) 8π B) 12π C) 16π D) 20π E) 24π

8.

A, D merkez *(center)*

ABCD kare *(square)*

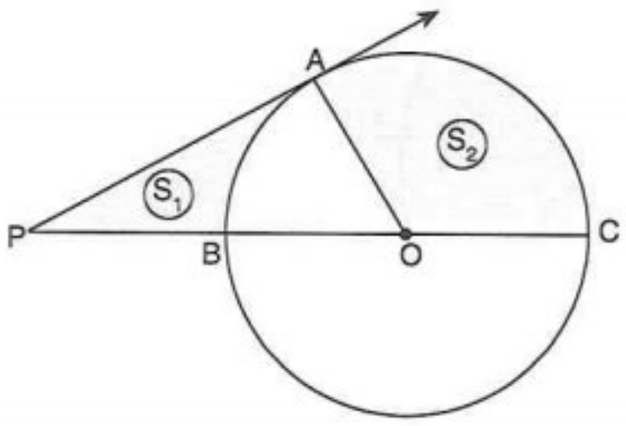
$|DF| = |AF| = 2$ br

⇒ **Taralı Alan = ?**

(Shaded Area)

A) $10+2\pi$ B) $8-2\pi$ C) $10-4\pi$ D) $8+2\pi$ E) $10-2\pi$

9.



O, merkez *(center)*

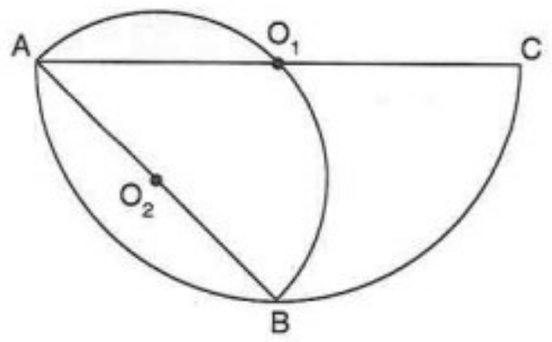
$S_1 = S_2$

$|OC| = 4$ br

⇒ $|PA| = ?$

A) 2π B) 3π C) 4π D) 6π E) 8π

10.



O_1, O_2 merkez *(center)*

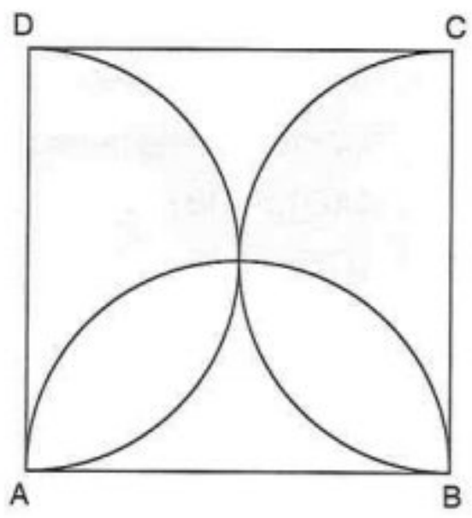
$|AO_2| = 6$ br

⇒ **Taralı Alan = ?**

(Shaded Area)

A) 12π B) 18π C) 20π D) 24π E) 28π

11.



ABCD kare *(square)*

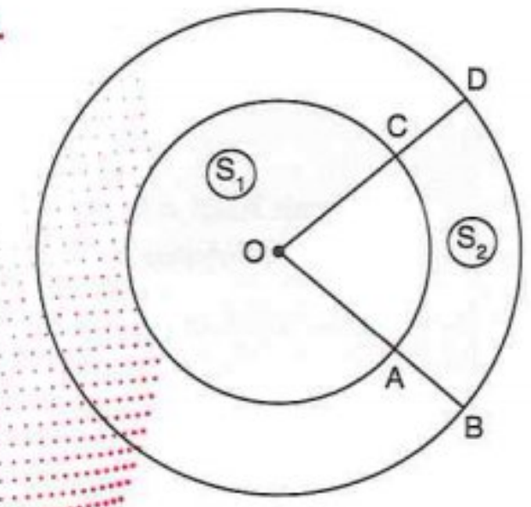
$|AB| = 6$ br

⇒ **Taralı Alan = ?**

(Shaded Area)

A) 18 B) $18-\frac{9\pi}{2}$ C) $12\pi-\frac{3\pi}{2}$ D) $18-\frac{9\pi}{4}$ E) 12

12.



O, merkez *(center)*

$|OC| = 2|CD|$

$5S_1 = 14S_2$

⇒ $m(\widehat{DOB}) = ?$

A) 30° B) 45° C) 60° D) 80° E) 90°

1. E	2. B	3. D	4. B	5. C	6. A
7. B	8. E	9. C	10. B	11. A	12. D

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ANALİTİK GEOMETRİ

ANALYTIC GEOMETRY

KONU KAVRAMA TESTİ
Thread Grip Test

ZİHİN HARİTASI
Mind Map

5
TEST
Tests

137
SORU
Questions

CANER eğitim kurumları YÖS

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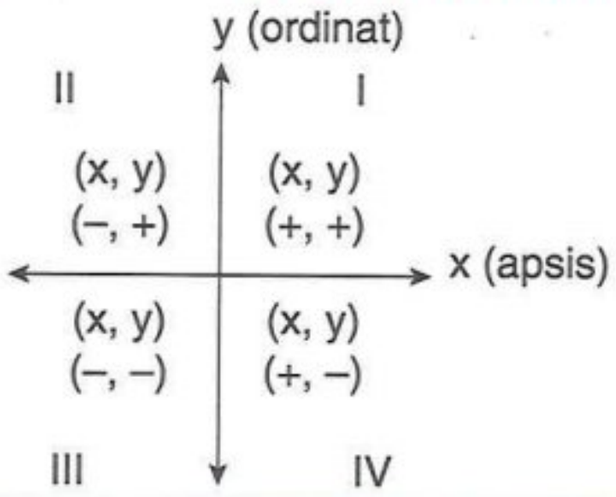
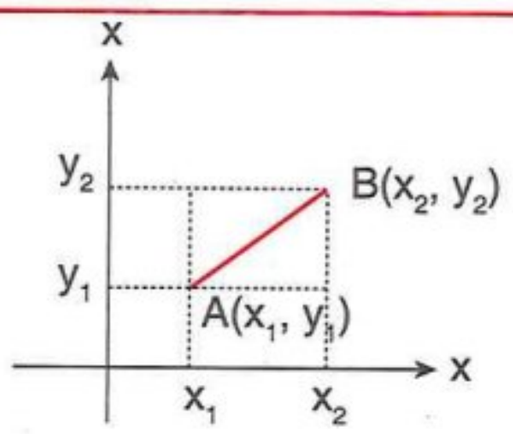
ANALİTİK GEOMETRİ
ANALYTIC GEOMETRY

CANER eğitim kurumları

1. Koordinat Sistemi

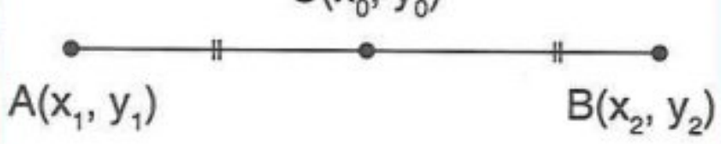


2.



$$|AB| = \sqrt{(x_2-x_1)^2+(y_2-y_1)^2}$$

3.



$$|AC| = |CB|$$

$$C(x_0, y_0) = \left(\frac{x_1+x_2}{2}, \frac{y_1+y_2}{2}\right)$$

4.

$d_1: a_1x + b_1y + c_1 = 0$

$d_2: a_2x + b_2y + c_2 = 0$

$d_1 // d_2 \Rightarrow m_1 = m_2, \ \frac{a_1}{b_1} = \frac{a_2}{b_2}$

$d_1 \perp d_2 \Rightarrow m_1 \cdot m_2 = -1, \ \frac{a_1}{b_1} \cdot \frac{a_2}{b_2} = -1$

Doğrular çakışık (Lines are coincident) $\Rightarrow \ \frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$

5.

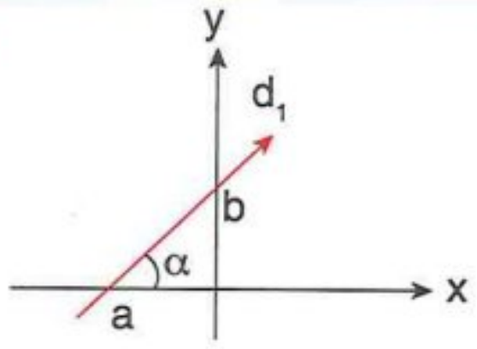
$$m = \frac{y_2-y_1}{x_2-x_1}$$

6.

$d: y = mx + n \Rightarrow m = $ eğim (slope)

$d: ax + by + c = 0 \Rightarrow m = -\frac{a}{b}$

7.



$$\text{eğim} = m = \tan\alpha = \frac{b}{a}$$

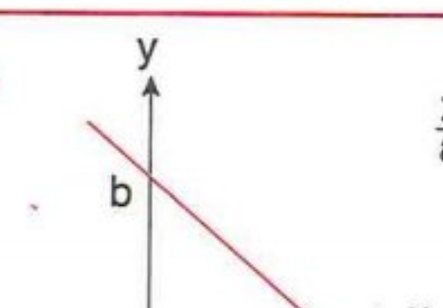
8.

Nokta --> $A(x_1, y_1)$

Eğim --> m

$y - y_1 = m \cdot (x - x_1)$

9.



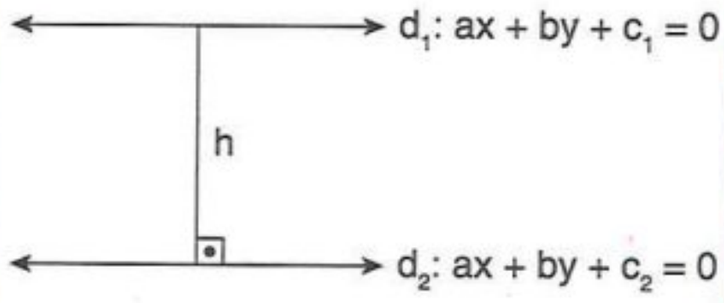
$$\frac{x}{a} + \frac{y}{b} = 1$$

10. Noktanın doğruya olan uzaklığı

(The distance of the point to the line is)

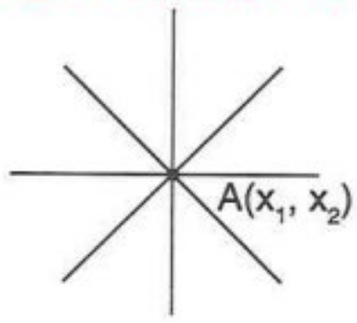
$$h = \frac{|ax_1 + by_1 + c|}{\sqrt{a^2+b^2}}$$

11.



$$d_1 // d_2 \Rightarrow h = \frac{|c_2-c_1|}{\sqrt{a^2+b^2}}$$

12. Doğru Demeti (Line Bundle)



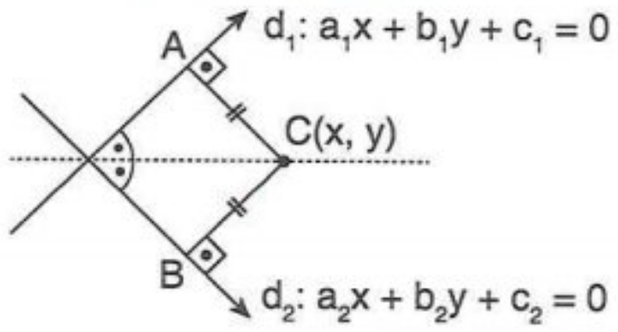
$ax + by + c + k(dx + cy + f) = 0$

$ax + by + c = 0$

$dx + cy + f = 0$

13. Açıortay Denklemi

Equation of Angle Bisector



$$\frac{a_1x + b_1x + c_1}{\sqrt{a_1^2 + b_1^2}} = \pm \frac{a_2x + b_2x + c_2}{\sqrt{a_2^2 + b_2^2}}$$

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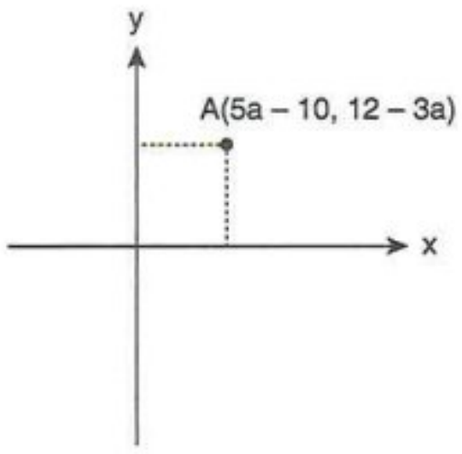
1.

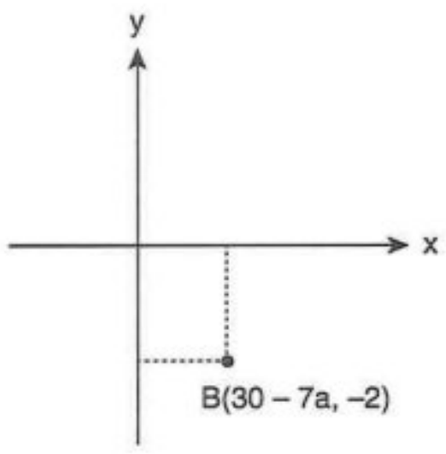


$a \in Z$

$\Rightarrow a = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

2.



$a \in Z^+$

$\Rightarrow \sum a = ?$

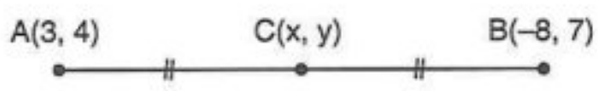
A) 10 B) 12 C) 16 D) 20 E) 25

3. **A(a + 4, b – 3) orijin noktası olduğuna göre B(2 – a, 2 – b) noktası kaçıncı bölgededir?**

If the point A(a+4, b – 3) is the origin, then which quadrant is the point B(2 – a, 2 – b) ?

A) Orijin B) I. C) II. D) III. E) IV.

4.

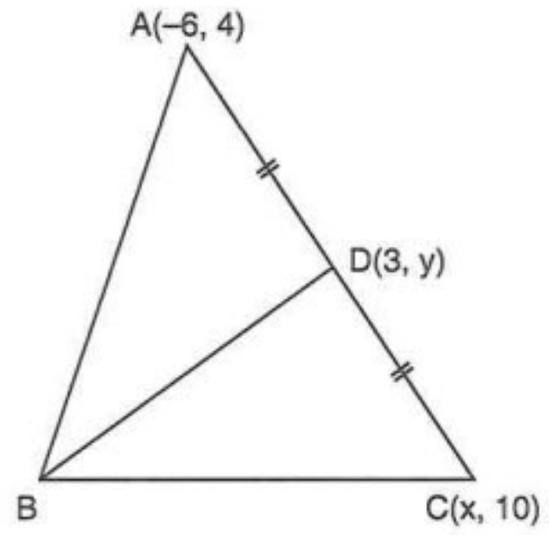


$|AC| = |CB|$

$\Rightarrow a = ?$

A) (–4, 11) B) $\left(-\frac{5}{2}, \frac{11}{2}\right)$ C) (5, 3) D) (6, 8) E) $\left(-\frac{7}{2}, -\frac{11}{2}\right)$

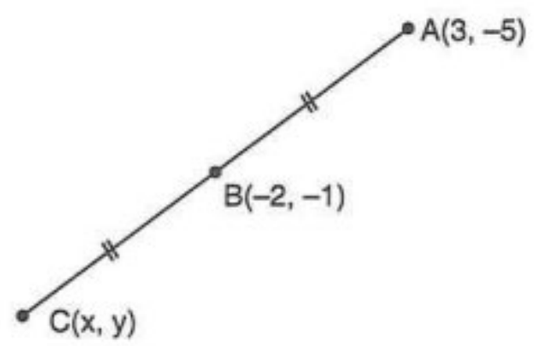
5.



$\Rightarrow x + y = ?$

A) 19 B) 15 C) 8 D) –10 E) –20

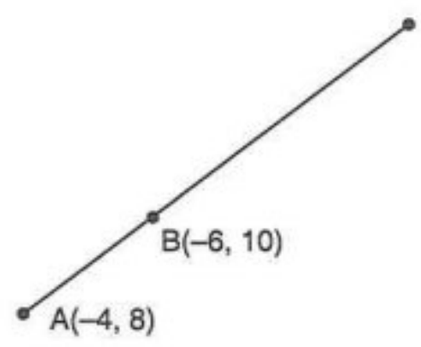
6.



$\Rightarrow x + y = ?$

A) $\frac{15}{2}$ B) $\frac{14}{5}$ C) 2 D) 0 E) –4

7.

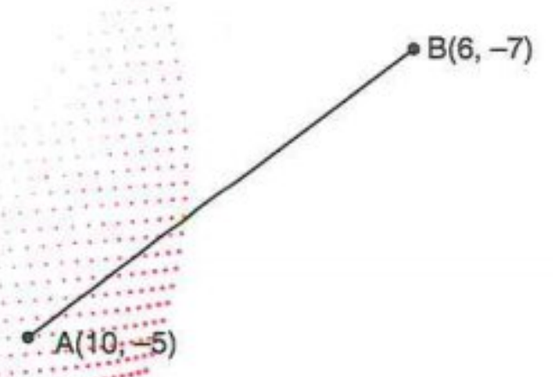


$2|BC| = 3|AB|$

$\Rightarrow C(x, y) = ?$

A) (–1, 8) B) (–9, 13) C) (10, –10) D) (2, 2) E) (–5, 6)

8.



$C(x, y) \notin [AB]$

$2|BC| = 3|AB| = 6|AC|$

$\Rightarrow x + y = ?$

A) 10 B) 8 C) 0 D) –2 E) –4

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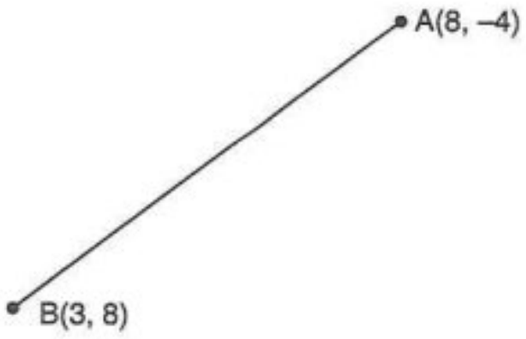
9.



⇒ $|AB| = ?$

A) 22 B) 16 C) 13 D) 12 E) 8

10. A(8, 3), B(2, x), $|AB| = 6\sqrt{5}$ br

⇒ $\sum x = ?$

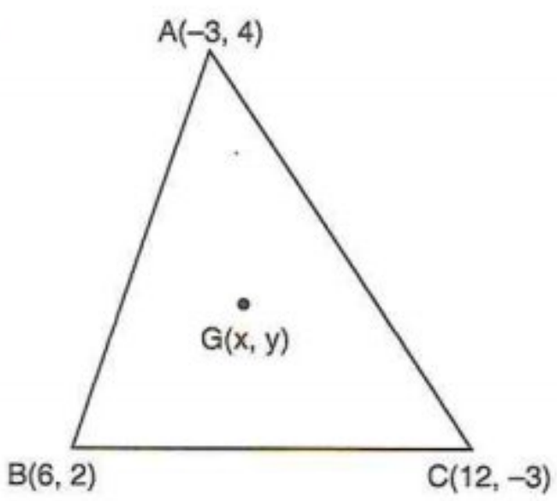
A) 6 B) 8 C) 10 D) 12 E) 16

11. T(5, 4), U(–5, 4) ve V(1, a) ve $|TU| = |UV|$, $a \in Z^-$

⇒ $a = ?$

A) 15 B) 12 C) –10 D) –4 E) –8

12.

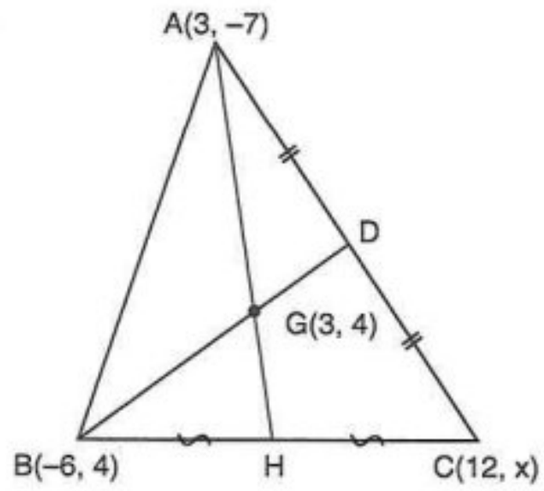


G, üçgenin ağırlık merkezi (*center of gravity*)

⇒ $x + y = ?$

A) 12 B) 10 C) 8 D) 7 E) 6

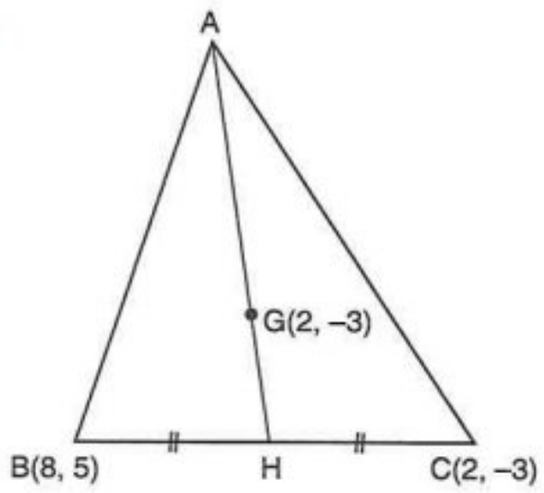
13.



⇒ $x = ?$

A) 25 B) 20 C) 15 D) 12 E) 10

14.

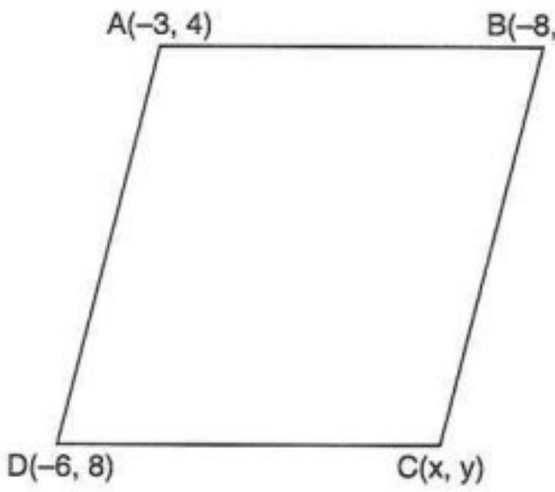


G, üçgenin ağırlık merkezi (*center of gravity*)

⇒ $|AH| = ?$

A) $24\sqrt{2}$ B) $5\sqrt{5}$ C) 15 D) $4\sqrt{3}$ E) 5

15.

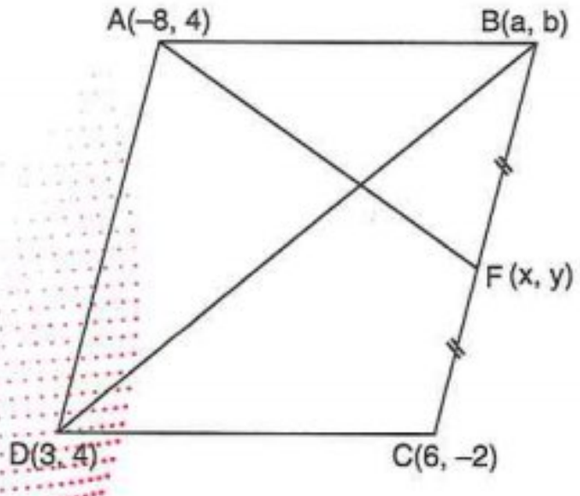


ABCD paralelkenar (*parallelogram*)

⇒ $x + y = ?$

A) 2 B) 5 C) –6 D) –10 E) 12

16.



ABCD paralelkenar (*parallelogram*)

⇒ $x + y = ?$

A) $-\frac{1}{2}$ B) $-\frac{3}{2}$ C) –2 D) $\frac{3}{2}$ E) $\frac{5}{2}$

1. C	2. A	3. E	4. B	5. A	6. E	7. B	8. B
9. C	10. A	11. D	12. E	13. C	14. C	15. A	16. B

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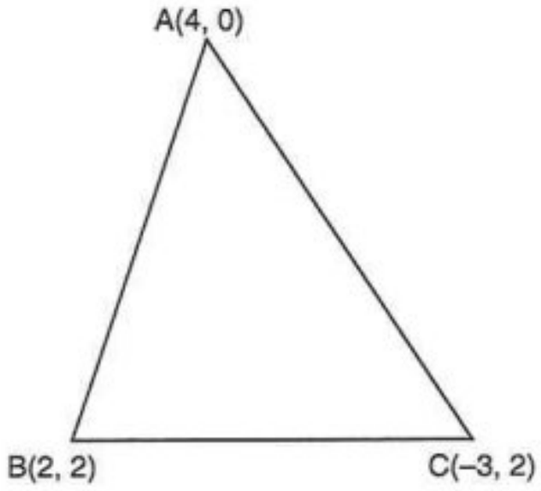
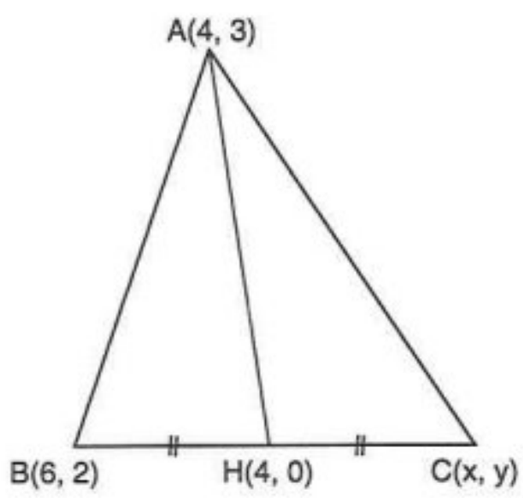
17.



⇒ $A(\widehat{ABC}) = ?$

A) 5 B) 12 C) 20 D) 30 E) 50

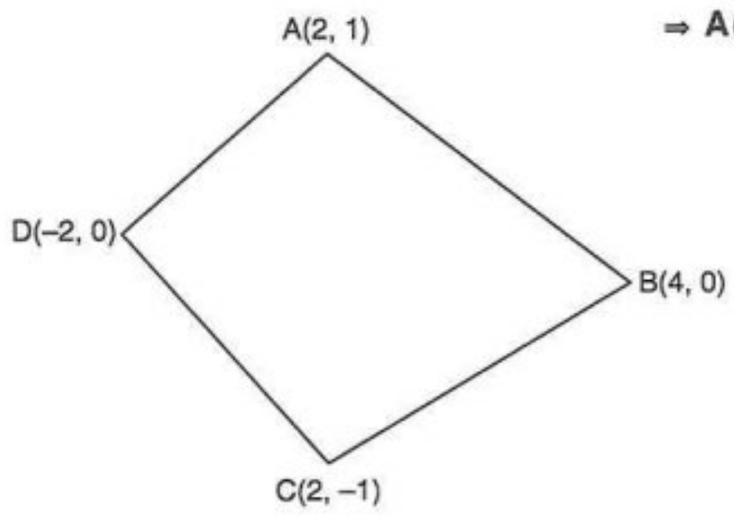
18.



⇒ $A(\widehat{ABC}) = ?$

A) 24 B) 16 C) 12 D) 10 E) 6

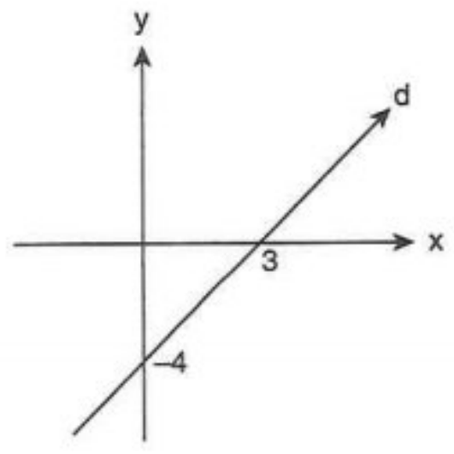
19.



⇒ $A(\widehat{ABC}) = ?$

A) 6 B) 8 C) 15 D) 25 E) 32

20.

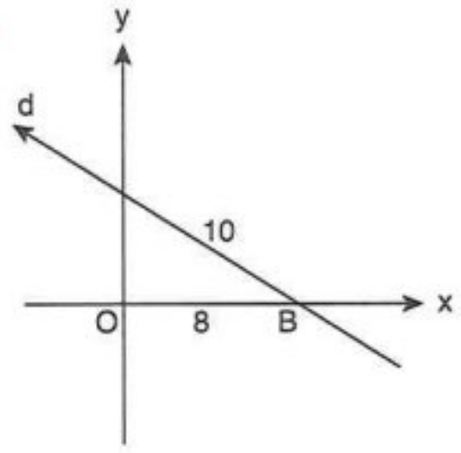


m = eğim (*slope*)

⇒ **m = ?**

A) 5 B) $\frac{3}{4}$ C) $\frac{4}{3}$ D) $-\frac{3}{4}$ E) –5

21.

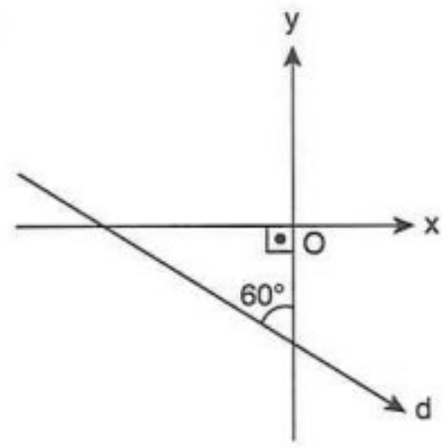


m = eğim (*slope*)

⇒ **m = ?**

A) $-\frac{3}{4}$ B) $\frac{4}{3}$ C) $-\frac{8}{3}$ D) 6 E) –16

22.



m = eğim (*slope*)

⇒ **m = ?**

A) $-\frac{1}{\sqrt{3}}$ B) $\sqrt{3}$ C) $\frac{1}{\sqrt{3}}$ D) $-\frac{1}{2}$ E) 1

23. $y = -6x + 3$ m = eğim (*slope*)

⇒ **m = ?**

A) –6 B) –3 C) –2 D) 2 E) 3

24. $-5x + 8y = -2$ m = eğim (*slope*)

⇒ **m = ?**

A) –2 B) $\frac{5}{8}$ C) 8 D) –5 E) $\frac{13}{8}$

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25. d: $4x - 8y + 5\sqrt{3} = 0$

m = eğim (*slope*)

⇒ **m = ?**

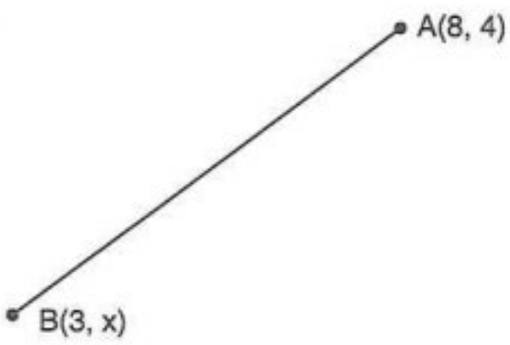
A) $4\sqrt{3}$ B) 8 C) 2 D) $\frac{1}{2}$ E) –4

26. A(4, –8) , B(7, 4) m = eğim (*slope*)

⇒ $\mathbf{m_{AB} = ?}$

A) 1 B) 2 C) 3 D) 4 E) 5

27.



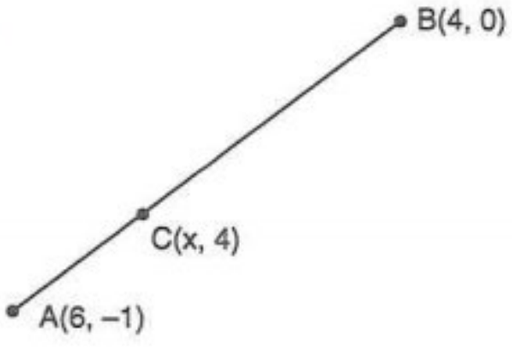
m = eğim (*slope*)

$m_{AB} = 2$

⇒ **x = ?**

A) –12 B) –6 C) 6 D) 12 E) 18

28.

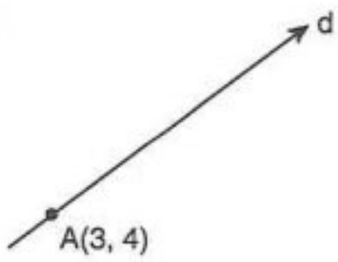


C ∈ [AB]

⇒ **x = ?**

A) 8 B) 4 C) –4 D) –5 E) –8

29.



m = eğim (*slope*)

m = 2

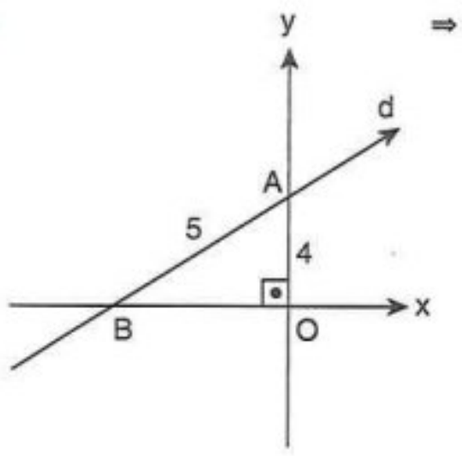
⇒ **d = ?**

A) $2x + 4y + 4 = 0$ B) $2x - y - 2 = 0$

C) $3x - 2y + 4 = 0$ D) $x + y + 1 = 0$

E) $4x - 2y + 1 = 0$

30.



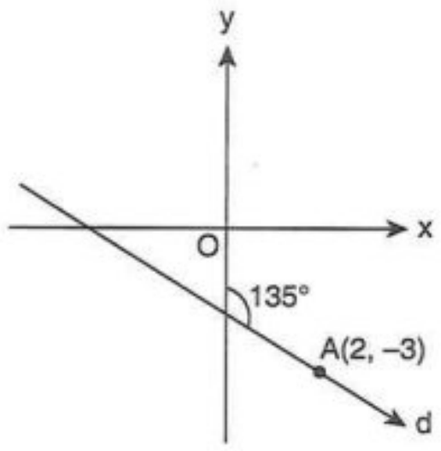
⇒ **d = ?**

A) $4x + 5y + 12 = 0$ B) $3x + 4y + 12 = 0$

C) $-3x + 4y - 12 = 0$ D) $3y - 4x - 12 = 0$

E) $6x + 8y + 5 = 0$

31.



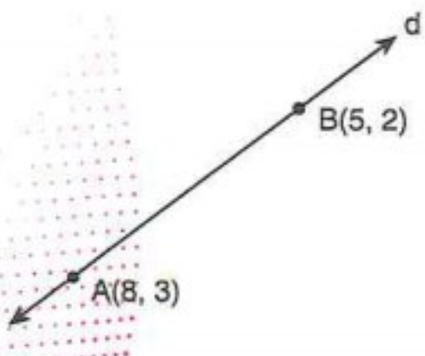
⇒ **d = ?**

A) $2x - 3y + 4 = 0$ B) $x + y + 1 = 0$

C) $-3y + 3x + 4 = 0$ D) $-3x + 2y + 4 = 0$

E) $2x + 2y - 3 = 0$

32.



⇒ **d = ?**

A) $3y - x - 1 = 0$ B) $x + 5y - 15 = 0$

C) $2x + 3y - 6 = 0$ D) $8x + 3y - 1 = 0$

E) $5x + 2y - 3 = 0$

17. A	18. E	19. A	20. C	21. A	22. A	23. A	24. B
25. D	26. D	27. B	28. C	29. B	30. D	31. B	32. A

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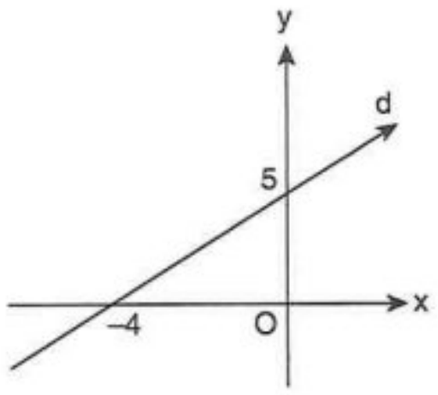
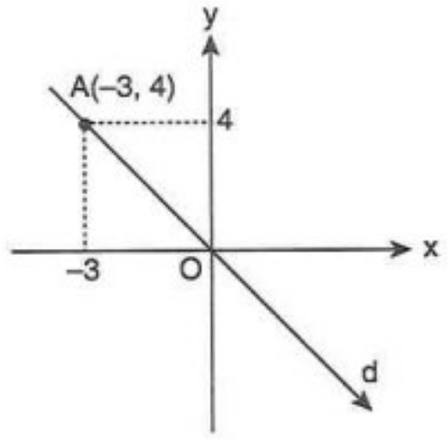
33. ⇒ d = ?



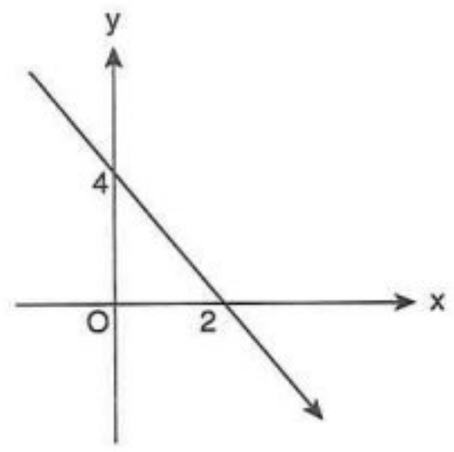
A) 5x + 4y + 20 = 0 B) –5x + 4y – 20 = 0
C) –5x – 4y + 20 = 0 D) 3x + 4y + 20 = 0
E) –3x – 4y + 12 = 0

34. ⇒ d = ?



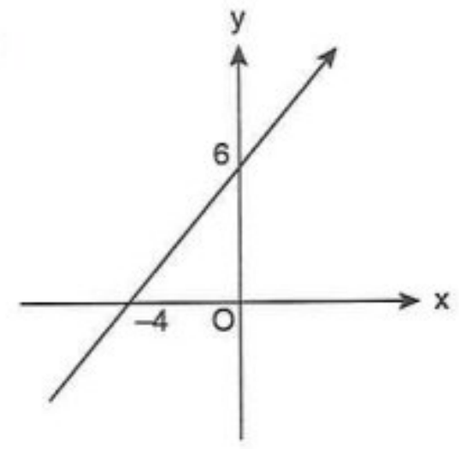
A) 3y + 4x = 0 B) –3y + 4x = 0 C) –3x + 4y = 0
D) 5x + 4y = 0 E) 4y + 3x = 0

35. ⇒ d = ?



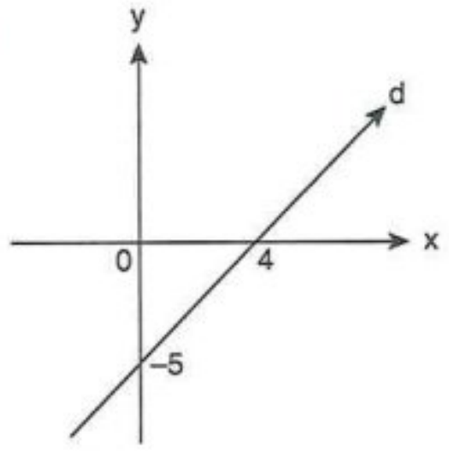
A) 2x + 2y – 4 = 0 B) 2x – 4y + 1 = 0
C) 2x + y – 4 = 0 D) 2x + 4y + 1 = 0
E) 2x – 4y – 1 = 0

36. ⇒ d = ?



A) 6x – 4y + 1 = 0 B) 4x – 6y + 1 = 0
C) 3x + 2y – 6 = 0 D) 6y + 3x – 1 = 0
E) 3x – 2y + 12 = 0

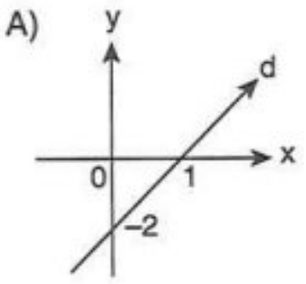
37. ⇒ d = ?

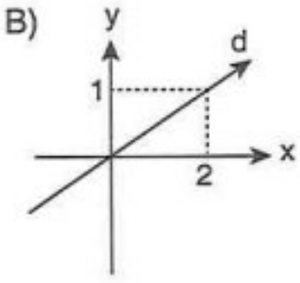


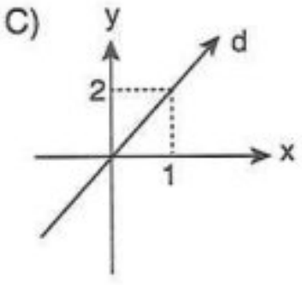
A) 4x + 5y – 1 = 0 B) 5x – 4y – 20 = 0
C) 4x – 5y – 4 = 0 D) 5x + 4y + 20 = 0
E) 4x – 5y + 20 = 0

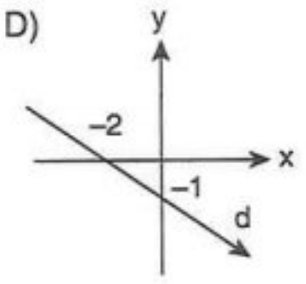
38. **x + 2y = 0 doğrusunun grafiği aşağıdakilerden hangisidir?**

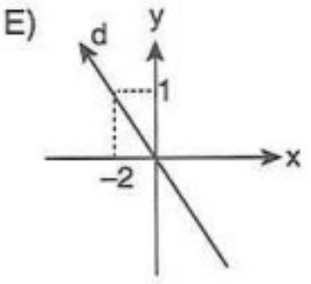
Which is the graph of x + 2y = 0 line amongst the following ones?

A)


B)


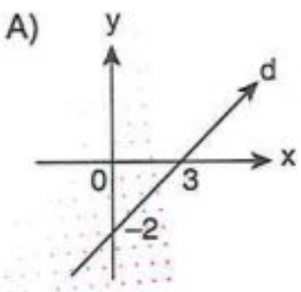
C)


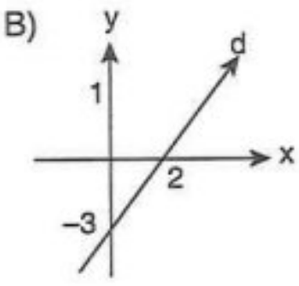
D)


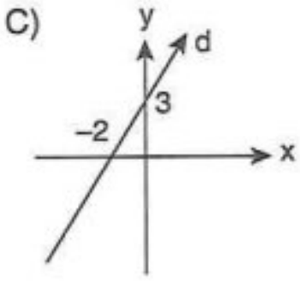
E)


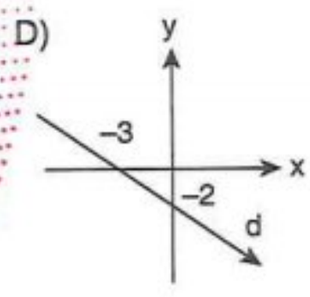
39. **2x – 3y – 6 = 0 doğrusunun grafiği aşağıdakilerden hangisidir?**

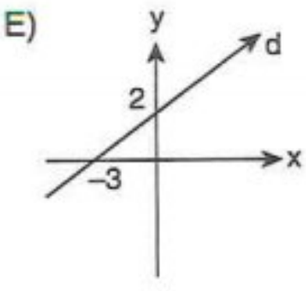
Which is the graph of 2x – 3y – 6 = 0 line amongst the following ones?

A)


B)


C)


D)


E)


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40. $d_1: 2x - 3y + 6 = 0$

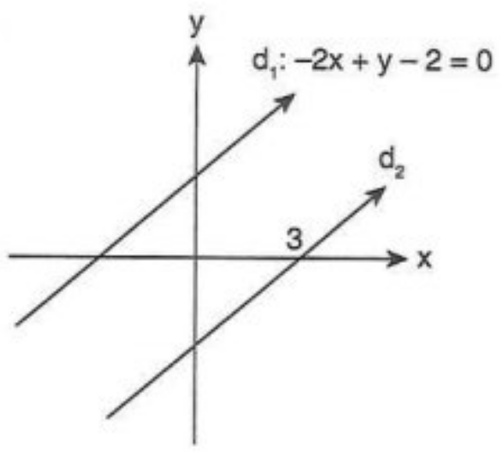
$d_2: kx - 12y + 5 = 0$

$d_1 \,//\, d_2$

$\Rightarrow$ **k = ?**

A) 12 B) 10 C) 8 D) 6 E) 3

41.



$d_1 \,//\, d_2$

$\Rightarrow$ **d_2 = ?**

A) $y + 3x - 5 = 0$ B) $y = 3x$

C) $x + 3y - 4 = 0$ D) $x + y - 3 = 0$

E) $y - 2x + 6 = 0$

42.

$d_1: -kx - 16y + 17 = 0$

$d_2: 3x + ky + 19 = 0$

$d_1 \,//\, d_2$

$\Rightarrow$ **k = ?**

A) 3 B) $3\sqrt{3}$ C) $4\sqrt{3}$ D) 8 E) 16

43. $d_1: 2x - 3y + 6 = 0$

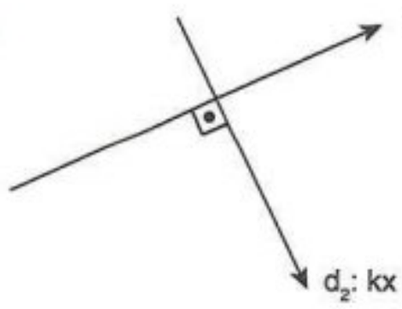
$d_2: kx + 4y - 8 = 0$

$d_1 \perp d_2$

$\Rightarrow$ **k = ?**

A) 10 B) 8 C) 6 D) 5 E) 3

44.



$k \in R^+$

$\Rightarrow$ **k = ?**

A) $4\sqrt{3}$ B) $3\sqrt{3}$ C) 10 D) 8 E) 6

45. $d_1: 3x - 6y + 4 = 0$

$d_2: kx + 12y - 8 = 0$

d_1 ve d_2 doğruları çakışık (*d_1 and d_2 lines are coincident*)

$\Rightarrow$ **k = ?**

A) 6 B) 3 C) –2 D) –3 E) –6

46. $d_1: 8x + 3ky + 2k = 0$

$d_2: 16x + 3y + m = 0$

d_1 ve d_2 doğruları çakışık (*d_1 and d_2 lines are coincident*)

$\Rightarrow$ **m = ?**

A) 2 B) 1 C) 0 D) –1 E) –2

47. $d_1: 2x - 5y - 5 = 0$

$d_2: 3x + 2y + 2 = 0$

Doğrularının kesim noktası nedir?

What is the interesting point of the lines?

A) (0, –1) B) (–1, –1) C) (2, 1)

D) (1, 0) E) (–1, 3)

33. B	34. A	35. C	36. E	37. B	38. E	39. A	40. C
41. E	42. C	43. C	44. D	45. E	46. A	47. A	

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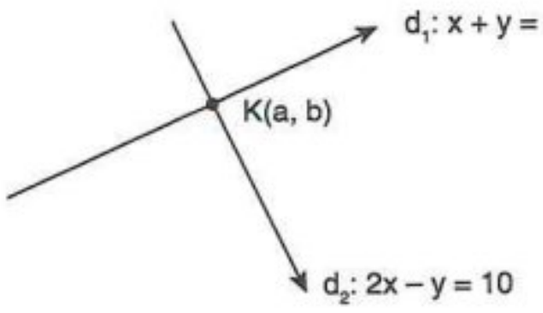
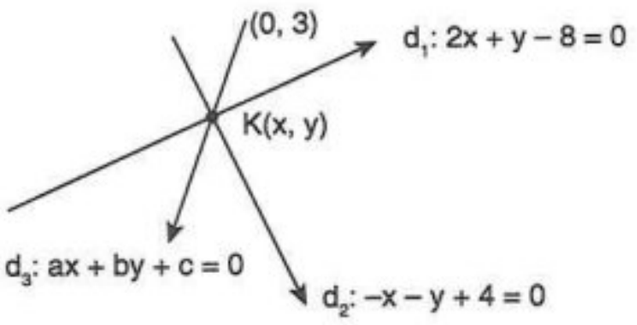
48.



⇒ **a + b = ?**

A) 4 B) 5 C) 6 D) 7 E) 8

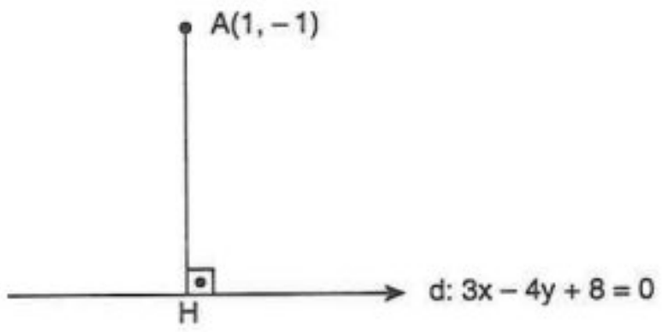
49.



⇒ d_3 = ?

A) 3x + 4y – 12 = 0 B) 6x – 8y + 10 = 0
C) 4x – 3y + 15 = 0 D) 4x + 6y – 8 = 0
E) 3x + y = 0

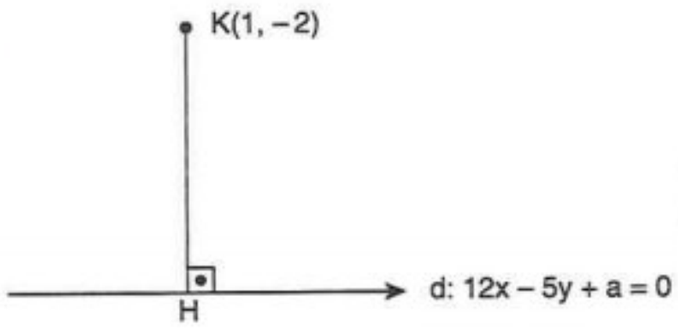
50.



⇒ **|AH| = ?**

A) $\frac{23}{4}$ B) $\frac{20}{3}$ C) 6 D) 5 E) 3

51.



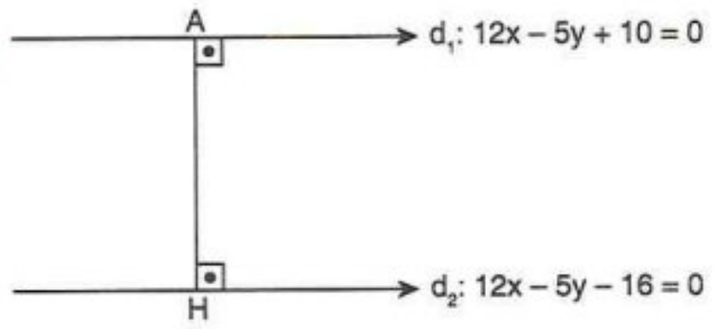
$a \in R^+$

|KH| = 2 br

⇒ **a = ?**

A) 23 B) 19 C) 16 D) 5 E) 4

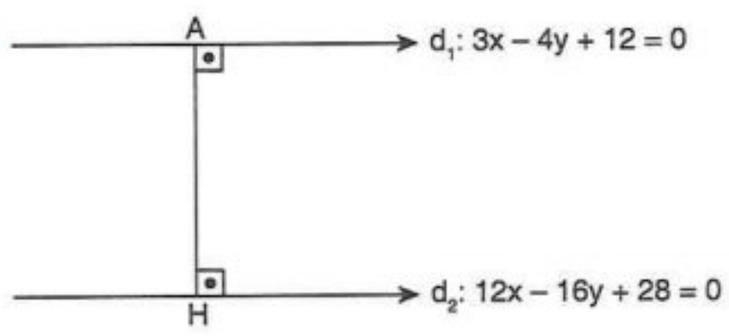
52.



⇒ **|AH| = ?**

A) 12 B) $\frac{10}{3}$ C) 3 D) 2 E) 1

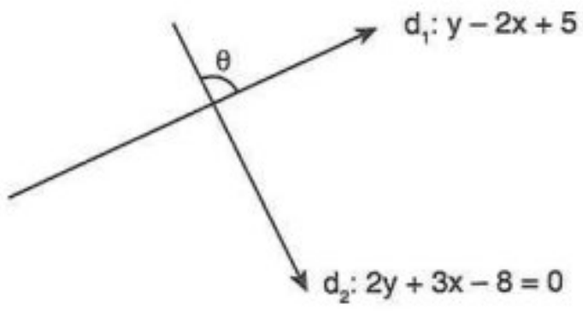
53.



⇒ **|AH| = ?**

A) 1 B) $\frac{5}{2}$ C) $\frac{11}{3}$ D) 10 E) 12

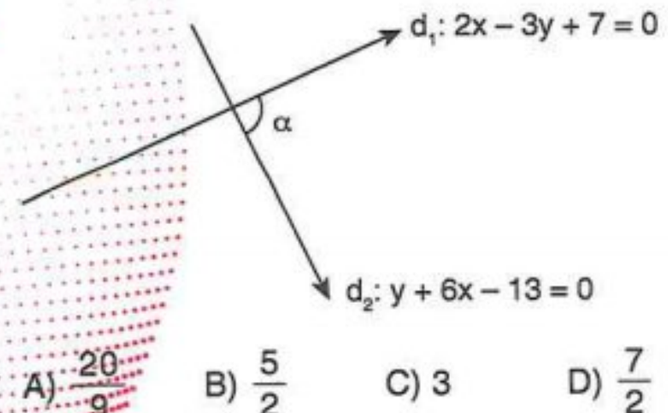
54.



⇒ **tanθ = ?**

A) $\frac{7}{8}$ B) $\frac{3}{2}$ C) $\frac{7}{4}$ D) 8 E) 9

55.



(α < 90)

⇒ **tan α = ?**

A) $\frac{20}{9}$ B) $\frac{5}{2}$ C) 3 D) $\frac{7}{2}$ E) 4

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56. $(k-3)y - kx + 2k + 6 = 0$

Doğrularının geçtiği noktanın koordinatları nedir?
What is the coordinates of the point where the line intersects?

A) $(-3, 4)$ B) $\left(-\frac{5}{2}, 2\right)$ C) $(4, 2)$

D) $(7, 4)$ E) $(-5, 4)$

57. $(1+m)y + (m-3)x - 3 = 0$

Doğrularının geçtiği noktanın koordinatları nedir?
What is the coordinates of the point where the line intersects?

A) $(3, -5)$ B) $(-2, 2)$ C) $(4, -3)$

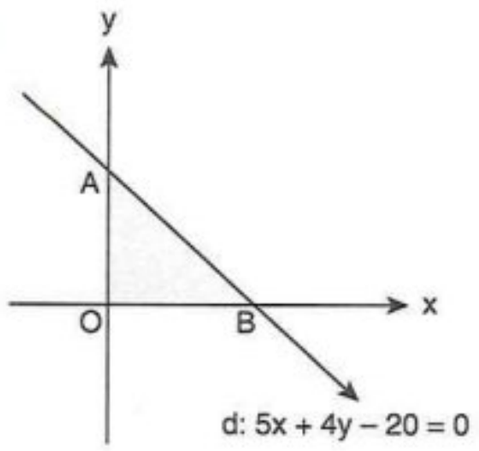
D) $\left(\frac{7}{2}, \frac{5}{2}\right)$ E) $\left(-\frac{3}{4}, \frac{3}{4}\right)$

58. $2x - 5y + 3 = 0$ ve $5x + 2y - 2 = 0$

doğrularının oluşturduğu açıortay denklemlerinden biri nedir?
What is one of the angle bisector equations formed by lines such as?

A) $7x + 3y = 0$ B) $3x + 7y - 5 = 0$
C) $3y + 7x - 10 = 0$ D) $4x + 5y - 8 = 0$
E) $5y - 4x - 6 = 0$

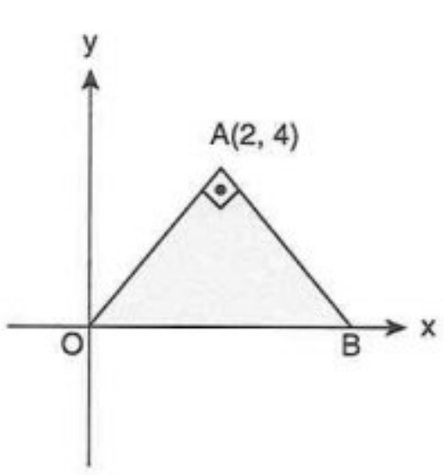
59.



$\Rightarrow A(\widehat{ABO}) = ?$

A) 3 B) 5 C) 7 D) 10 E) 12

60.

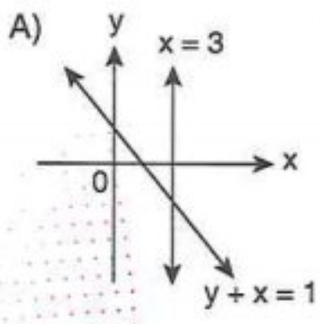


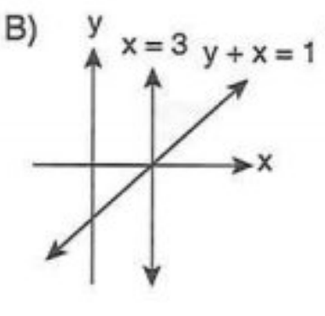
$\Rightarrow A(\widehat{ABO}) = ?$

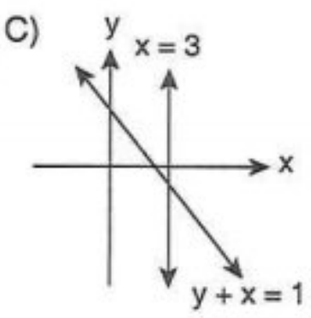
A) 28 B) 25 C) 22 D) 20 E) 16

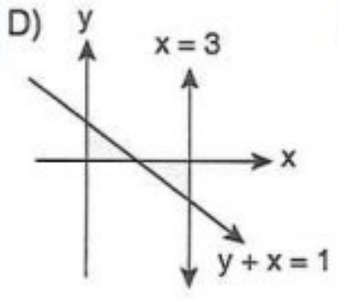
61. Analitik düzlemde, $x \geq 3$ ve $y + x < 1$ eşitsizlik sisteminin grafiği nedir?

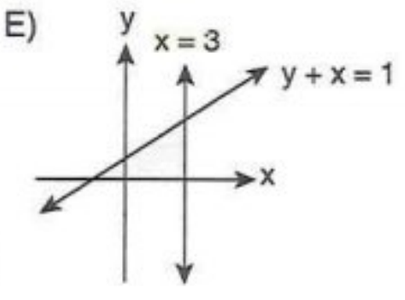
Which is the graph that proves the $x \geq 3$ and $y + x < 1$ inequalities at the analytical plane?

A)


B)


C)


D)


E)


48. B	49. A	50. E	51. E	52. D	53. A	54. C	55. A
56. C	57. E	58. B	59. D	60. D	61. A		

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1. $a \in Z$

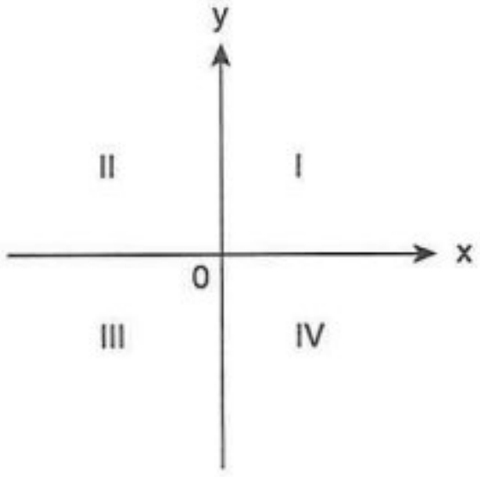
A(a – 4, 2a – 11) noktası analitik düzlemde IV. bölgede

A(a – 4, 2a – 11) point is at the IV.th in the analytical plane

⇒ a = ?

A) –5 B) –3 C) –1 D) 3 E) 5

2.

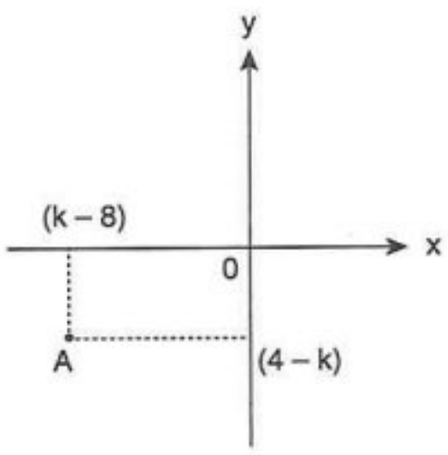


Analitik düzlemde $A(a^3b^2, -a + b^3)$ noktası III. bölgede ise B(b – a, –a) hangi bölgededir?

İf the point $A(a^3b^2, -a + b^3)$ III.rd quadrand in the analytical plane, then which quadrant is the point B(b – a, –a)

A) I B) II C) III D) IV E) orijin

3.



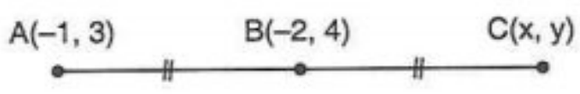
$k \in Z$

A(k – 8, 4 – k) III. bölgede

⇒ $\sum k$ = ?

A) 20 B) 18 C) 15 D) 12 E) 8

4.

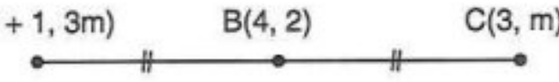


|AB| = |AC|

⇒ x + y = ?

A) –4 B) –2 C) 0 D) 1 E) 2

5.

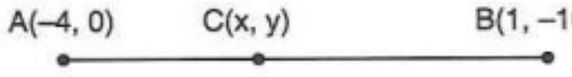


|AB| = |BC|

⇒ k · m = ?

A) –6 B) –4 C) 0 D) 2 E) 4

6.



3|AC| = 2|CB|

⇒ x + y = ?

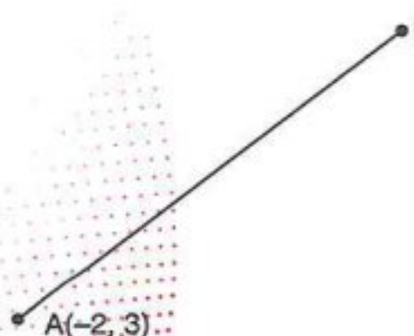
A) –6 B) –4 C) –2 D) 4 E) 5

7. A(–6, 5), B(–24, 14), C ∉ [AB] , $\frac{|AB|}{|BC|} = \frac{9}{4}$

⇒ C(x, y) = ?

A) (–30, 16) B) (–28, 18) C) (–32, 16)
D) (–32, 18) E) (–28, 20)

8.



⇒ |AB| = ?

A) $\sqrt{103}$ B) $2\sqrt{34}$ C) 12
D) $\sqrt{197}$ E) 23

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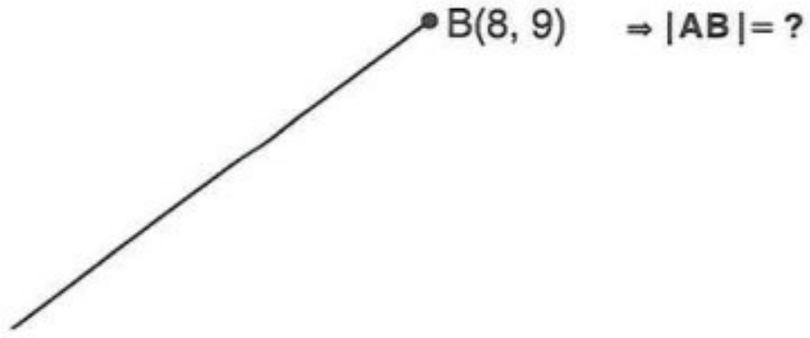
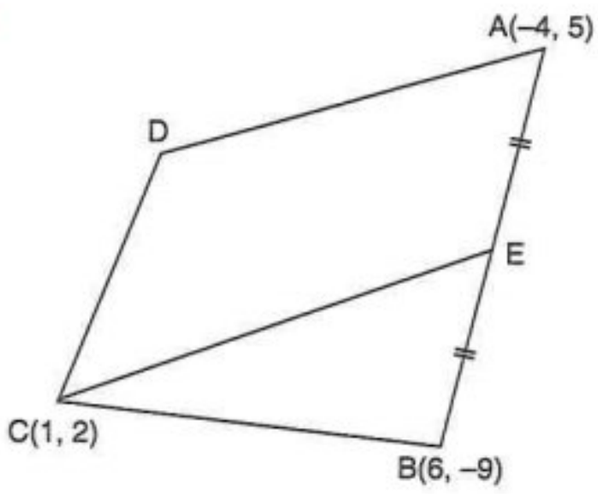
9.



⇒ |AB| = ?

A) $2\sqrt{3}$ B) 5 C) 15 D) 25 E) $25\sqrt{2}$

10.



⇒ |EC| = ?

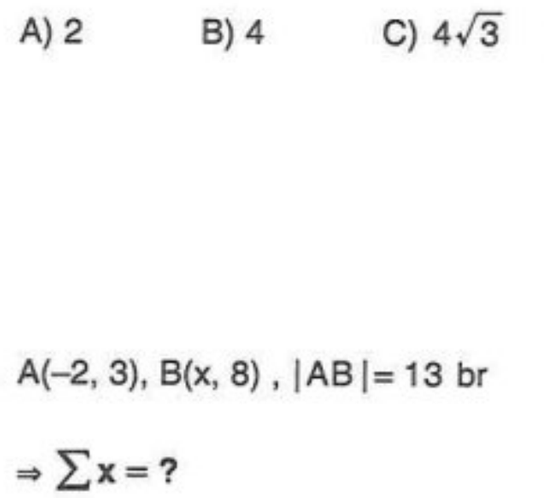
A) 2 B) 4 C) $4\sqrt{3}$ D) $6\sqrt{2}$ E) 9

11. A(–2, 3), B(x, 8) , |AB| = 13 br

⇒ $\sum x$ = ?

A) 5 B) 4 C) 0 D) –2 E) –4

12.

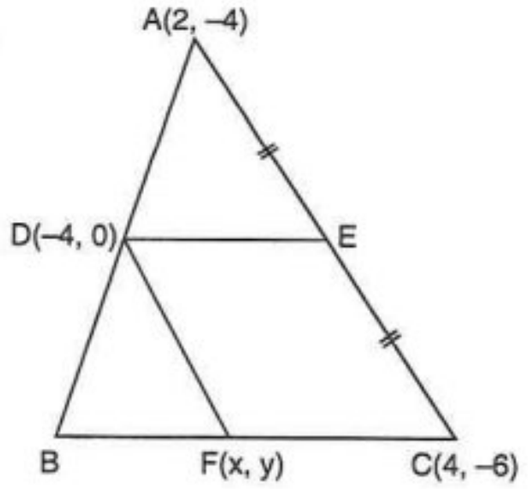


2|AD| = |DC|

⇒ $A(\widehat{BDC}) = ?$

A) 4 B) 3 C) 2 D) $\frac{3}{2}$ E) 1

13.



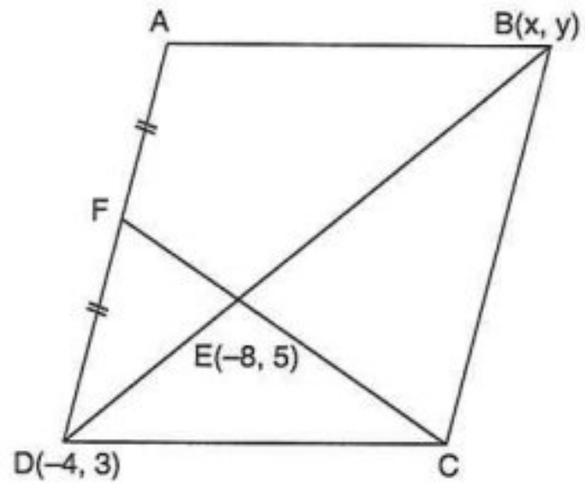
|AE| = |EC|

EDFC paralelkenar (*Parallelogram*)

⇒ F(x, y) = ?

A) (–2, 3) B) (2, 3) C) (–1, 3) D) (2, –2) E) (–3, –1)

14.



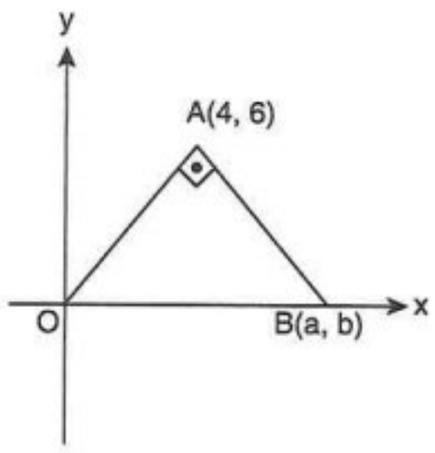
ABCD paralelkenar (*Parallelogram*)

|AF| = |FD|

⇒ B(x, y) = ?

A) (–12, 9) B) (–16, 9) C) (–12, 16) D) (–12, 7) E) (–16, 7)

15.



⇒ a + b = ?

A) 17 B) 13 C) 10 D) 8 E) 7

16.

⇒ $A(\widehat{ABC}) = ?$

A) 28 B) 24 C) 20 D) 15 E) 12

1. E	2. B	3. B	4. E	5. E	6. A	7. D	8. B
9. D	10. B	11. E	12. A	13. E	14. B	15. B	16. E

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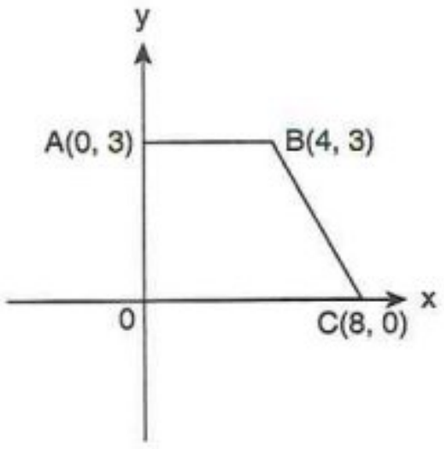
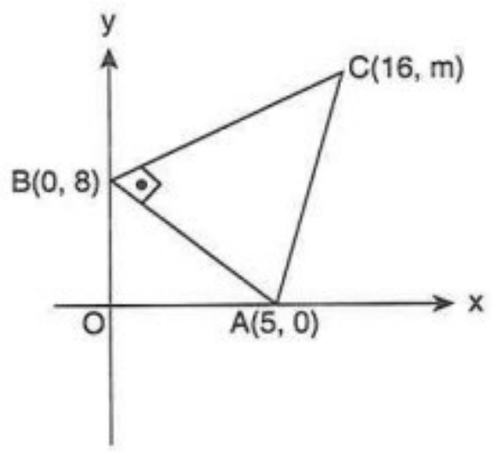
1.



⇒ **A(ABCO) = ?**

A) 8 B) 12 C) 16 D) 18 E) 24

2.

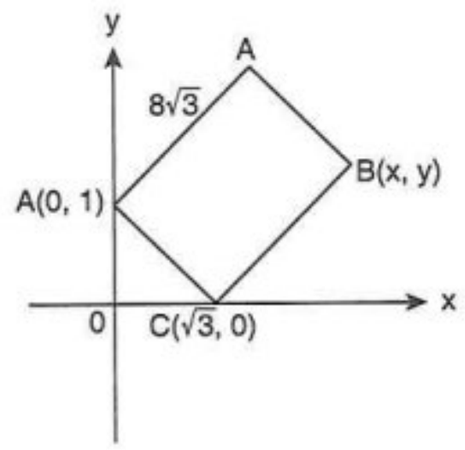


[CB] ⊥ [AB]

⇒ **m = ?**

A) 18 B) 16 C) 12 D) 11 E) 10

3.



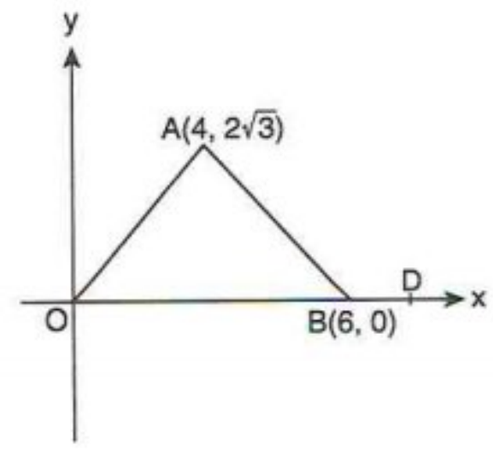
ABCD dikdörtgen (*rectangle*)

|AD| = 8√3 br

⇒ **B(x, y) = ?**

A) (5√3, 12) B) (4√3, 8) C) (6√3, 7√9)
D) (8, 6) E) (4√2, 6)

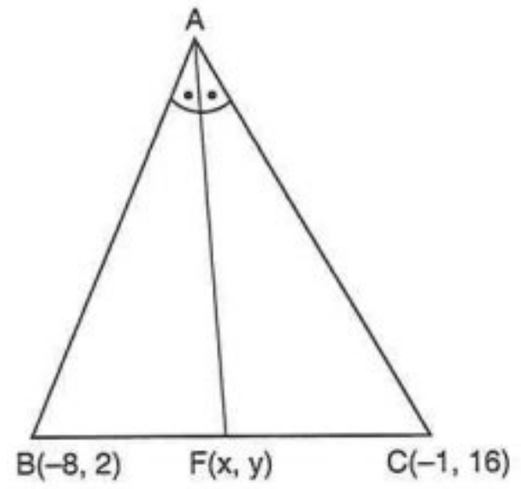
4.



⇒ **m(AB̂D) = ?**

A) 100° B) 110° C) 120° D) 135° E) 150°

5.



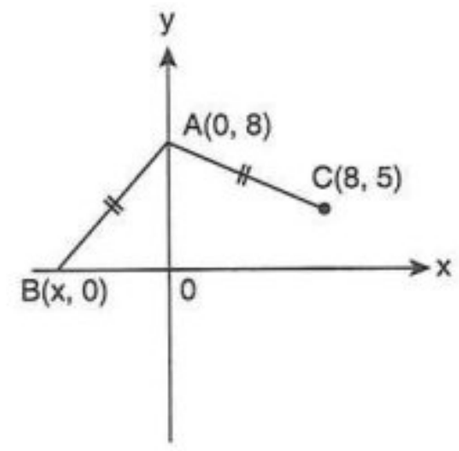
[AF] açıortay (*bisector*)

3|AB| = 4|AC|

⇒ **F(x, y) = ?**

A) (–5, –4) B) (–4, 10) C) (–5, 5)
D) (–5, 8) E) (–4, 6)

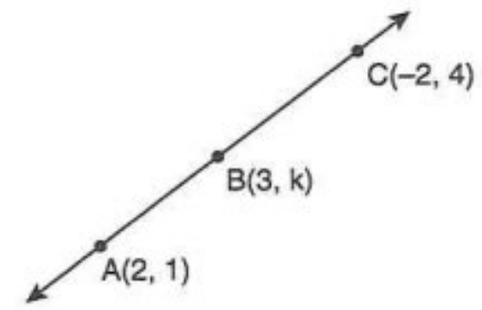
6.



⇒ **x = ?**

A) –8 B) –5 C) –3 D) –2 E) –1

7.



B ∈ AC

⇒ **k = ?**

A) $\frac{9}{2}$ B) 4 C) $\frac{7}{2}$ D) 2 E) $\frac{1}{4}$

8. A(0, 1), B(3, 4) ve C(k, 2) noktaları doğrusal

A(0, 1), B(3, 4) and C(k, 2) points are linear

⇒ **k = ?**

A) 5 B) 4 C) 3 D) 2 E) 1

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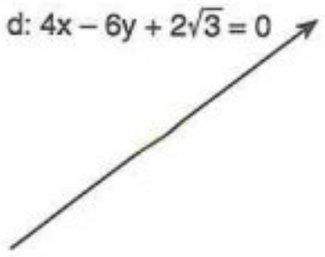
9. d: $4x - 6y + 2\sqrt{3} = 0$

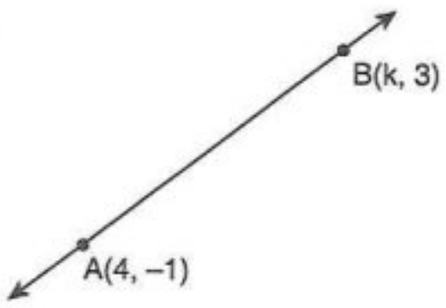


m = eğim (*slope*)

⇒ **m = ?**

A) $\frac{2}{3}$ B) 4 C) $\frac{15}{2}$ D) $-\frac{6}{5}$ E) –1

10.



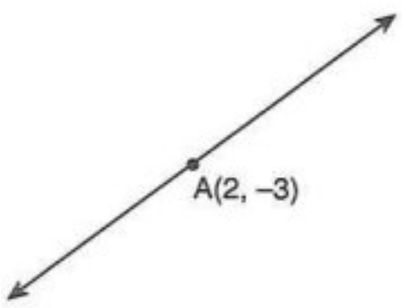
m = eğim (*slope*)

$m_{AB} = \frac{3}{2}$

⇒ **k = ?**

A) $\frac{21}{2}$ B) $\frac{20}{3}$ C) 6 D) –5 E) –8

11.



m = eğim (*slope*)

$m_d = 3$

d: $ax + by + c = 0$

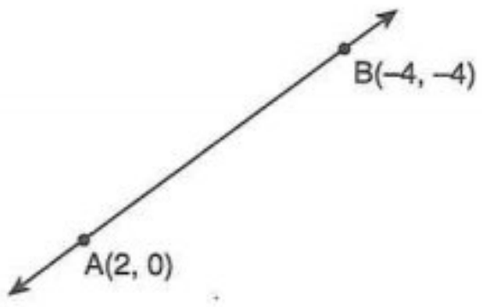
⇒ **d = ?**

A) $y + 3x - 4 = 0$ B) $y - 3x + 9 = 0$

C) $y - 3x + 4 = 0$ D) $2x - y + 6 = 0$

E) $2x + y - 6 = 0$

12.



d: $ax + by + c = 0$

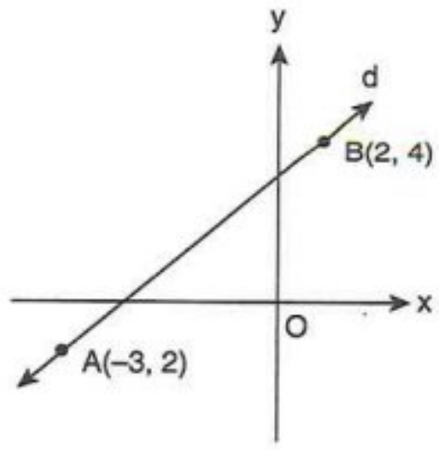
⇒ **d = ?**

A) $3y + 4x - 5 = 0$ B) $2x - 3y + 4 = 0$

C) $3y - 2x + 4 = 0$ D) $2x + 3y = 0$

E) $2x + y - 4 = 0$

13.



d: $ax + by + c = 0$

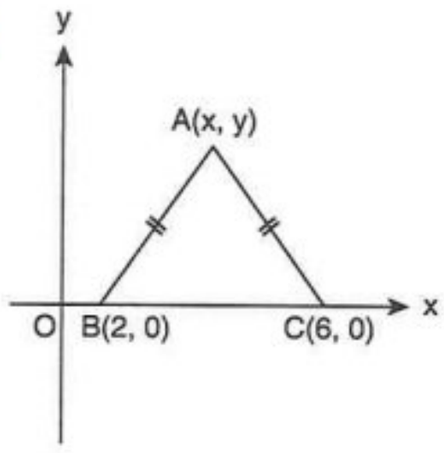
⇒ **d = ?**

A) $5y + 3x - 15 = 0$ B) $2x + 4y - 20 = 0$

C) $2x - 4y + 5 = 0$ D) $5y - 6x - = 0$

E) $-3x + 2y - 6 = 0$

14.

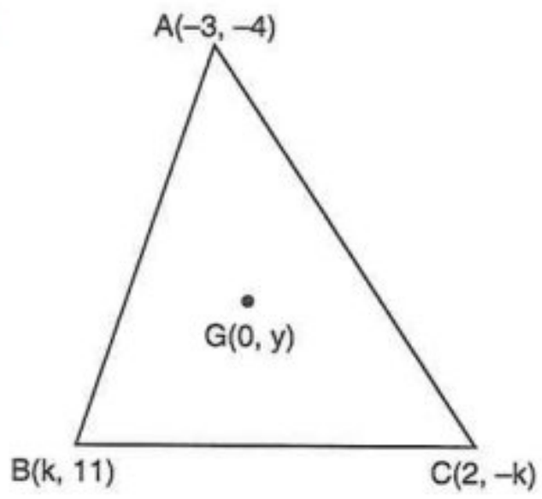


$|AB| = |AC| = 2\sqrt{5}$ br

⇒ **x + y = ?**

A) $\frac{5}{3}$ B) $\frac{8}{3}$ C) 4 D) 5 E) 8

15.

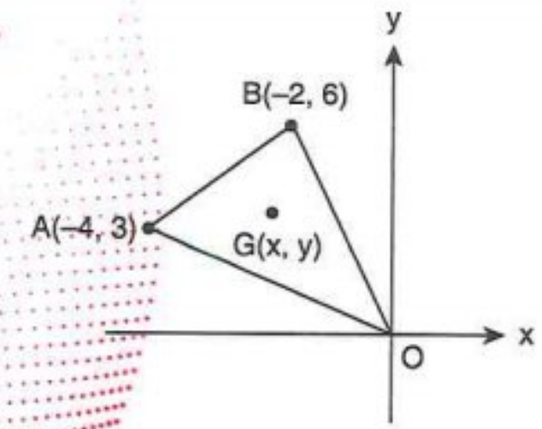


G ağırlık merkezi
(*center of gravity*)

⇒ **y = ?**

A) 1 B) 2 C) 3 D) 4 E) 5

16.



G ağırlık merkezi
(*center of gravity*)

⇒ **x + y = ?**

A) 5 B) 4 C) 1 D) –2 E) –3

1. D	2. A	3. A	4. C	5. B	6. C	7. E	8. E
9. A	10. B	11. B	12. C	13. D	14. E	15. B	16. C

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1. $d_1: 4x + 2y - 3 = 0$

$d_2: 2x - (k-1)y + \sqrt{5} = 0$

$d_1 \,//\, d_2$

$\Rightarrow$ **k = ?**

A) –6 B) –4 C) 0 D) 1 E) 2

2. $d_1: 3x - 2y + 4 = 0$

$d_2: 2ax + 3y - 8 = 0$

$d_1 \perp d_2$

$\Rightarrow$ **a = ?**

A) 4 B) 1 C) 0 D) $-\frac{6}{5}$ E) $-\frac{4}{3}$

3. **A(2, –1) noktasından geçen ve 2x – 3y + 4 = 0 doğrusuna paralel olan doğrunun denklemi nedir?**

What is the equation of a line that is intersets the point A(2, –1) and parallel to the 2x – 3y + 4 = 0 line?

A) 3x – 2y + 4 = 0 B) 2x – 3y + 7 = 0

C) 2x + 3y + 7 = 0 D) 3y – 2x + 7 = 0

E) 3y + 2x + 7 = 0

4. **A(4, 3) noktasından geçen ve –x + 3y – 7 = 0 doğrusuna dik olan doğrunun denklemi nedir?**

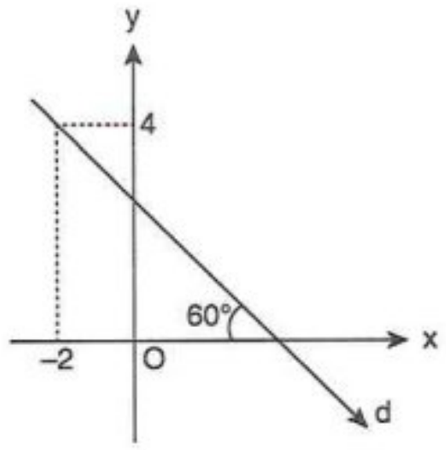
What is the equation of a line that is intersets the point A(4, 3) and perpendicular to the –x + 3y – 7 = 0 line?

A) 3x – y + 15 = 0 B) 2x – 3y – 15 = 0

C) y + 3x – 15 = 0 D) 3x + y + 5 = 0

E) y – 3x – 15 = 0

5.



d : ax + by + c = 0

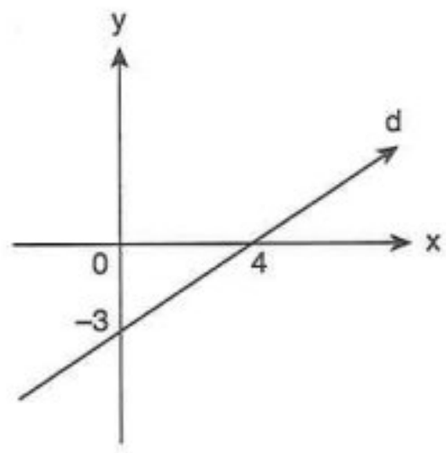
$\Rightarrow$ **d = ?**

A) $y - \sqrt{3}x + \sqrt{3} = 0$ B) $y - \sqrt{3}x + 2\sqrt{3} = 0$

C) $y + \sqrt{3}x + 2\sqrt{3} - 4 = 0$ D) $y - \sqrt{3}x + 5 = 0$

E) $y + 3x - 5\sqrt{3} = 0$

6.



d: ax + by + c = 0

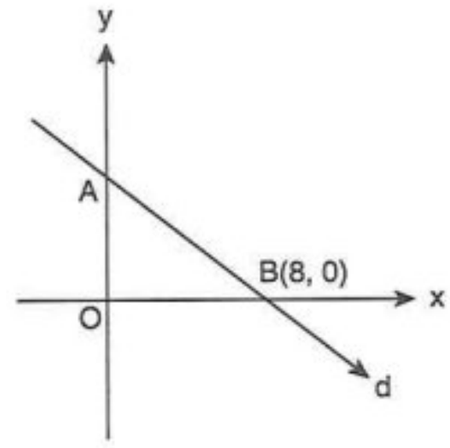
$\Rightarrow$ **d = ?**

A) 4x + 3y + 12 = 0 B) 4y – 3x + 12 = 0

C) 5x + 3y – 12 = 0 D) 4y – 3x = 0

E) 4y + 3x – 12 = 0

7.



|AB| = 10

d: ax + by + c = 0

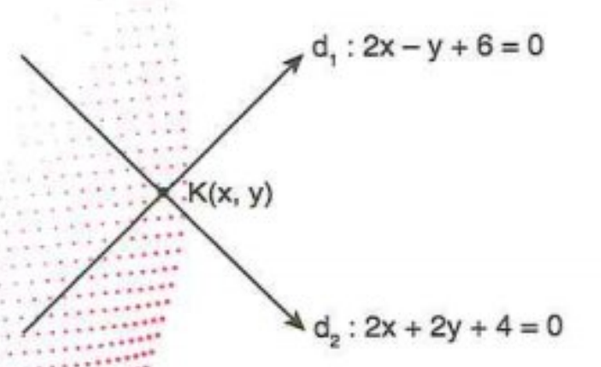
$\Rightarrow$ **d = ?**

A) 3x + 4y – 24 = 0 B) 8y – 6x + 10 = 0

C) 8x + 6y – 10 = 0 D) 4x – 3y + 12 = 0

E) 4x + 3y + 5 = 0

8.



$\Rightarrow$ **x + y = ?**

A) –2 B) $-\frac{3}{2}$ C) 0 D) $\frac{5}{4}$ E) $\frac{7}{2}$

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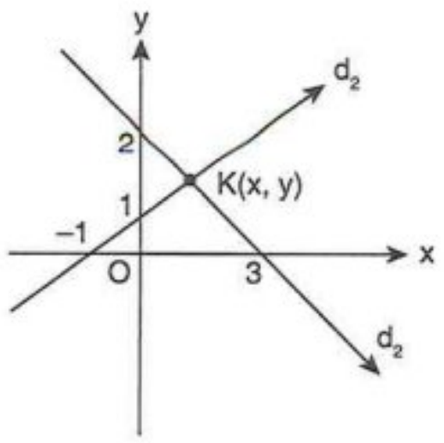
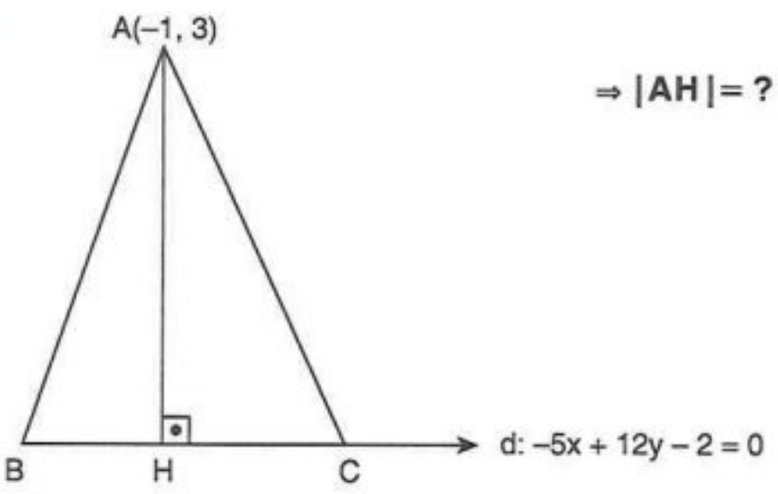
9.



⇒ K(x, y) = ?

A) $\left(\frac{12}{7}, \frac{3}{7}\right)$ B) $\left(2, \frac{3}{2}\right)$ C) $\left(\frac{20}{11}, \frac{4}{3}\right)$ D) $\left(-\frac{3}{2}, \frac{3}{2}\right)$ E) $\left(\frac{3}{5}, \frac{8}{5}\right)$

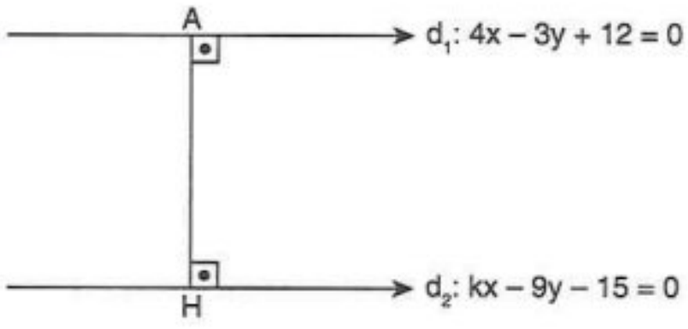
10.



⇒ |AH| = ?

A) $\frac{38}{13}$ B) 3 C) $\frac{41}{3}$ D) $\frac{54}{13}$ E) 4

11.



$d_1 \,//\, d_2$

⇒ |AH| = ?

A) $\frac{17}{5}$ B) $\frac{23}{4}$ C) $\frac{12}{5}$ D) $\frac{8}{12}$ E) $\frac{7}{5}$

12. d_1: 13y = −17x + 4

d_2: 31y = 5x + 2

doğrularının kesim noktasından ve orijinden geçen doğrunun denklemi nedir?

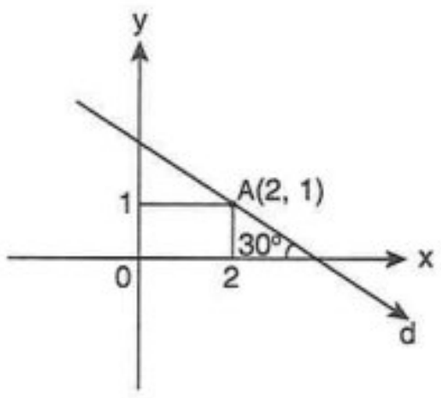
A) 11x = 49y B) 3x = 11y C) 27x = 49y D) 22x = 49y E) 11x = 9y

13. **A(−1, 3) noktasının $y = \frac{5-2x}{4}$ doğrusuna olan uzaklığı kaç br'dir?**

How many unit is the distance of A(−1, 3) point to $y = \frac{5-2x}{4}$ line?

A) $2\sqrt{3}$ B) $\frac{\sqrt{5}}{2}$ C) $\frac{2\sqrt{5}}{3}$ D) 10 E) $4\sqrt{3}$

14.



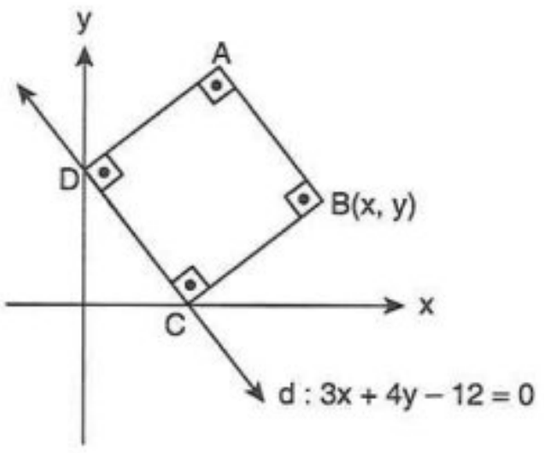
⇒ d = ?

A) $y = \frac{x+1+\sqrt{3}}{\sqrt{2}}$ B) $y = \frac{x+2+\sqrt{3}}{\sqrt{3}}$

C) $y = \frac{-x+2+\sqrt{3}}{\sqrt{3}}$ D) $y = \frac{-x-\sqrt{3}}{\sqrt{5}}$

E) $y = \frac{-x+2}{\sqrt{3}}$

15.

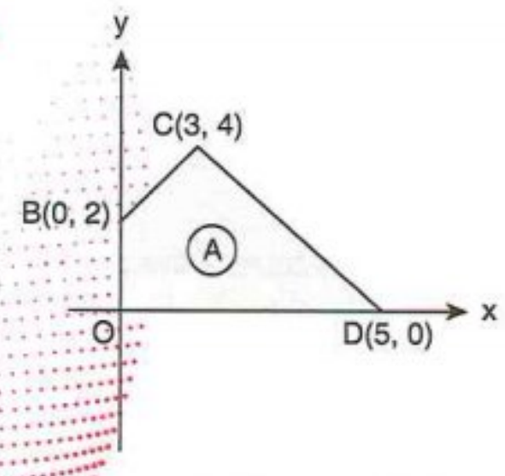


ABCD bir kare (*square*)

⇒ x + y = ?

A) 5 B) 7 C) 9 D) 11 E) 13

16.



⇒ A = ?

A) 8 B) 9 C) 10 D) 11 E) 13

1. C	2. B	3. D	4. C	5. C	6. B	7. A	8. A
9. E	10. B	11. A	12. C	13. B	14. C	15. D	16. E

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1. x ekseni ile pozitif yönde 120° açı yapan d doğrusu T(k, $2\sqrt{3}$) ve U(4, $4\sqrt{3}$) noktasından geçtiğine göre k kaçtır?

A) 1 B) 2 C) 4 D) 6 E) 8

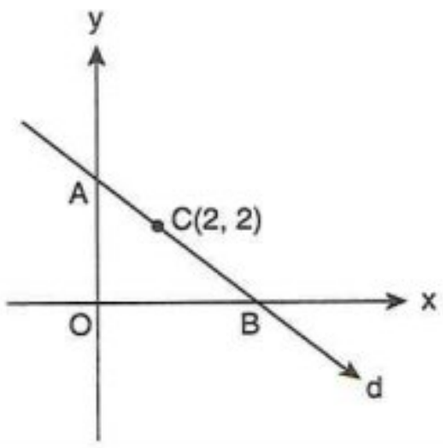
2. $2y - 3(x - 2) = k(3 + x)$ doğrusu orijinden geçtiğine göre bu doğrusun eğimi kaçtır?

A) $-\frac{1}{3}$ B) $-\frac{1}{2}$ C) 1 D) $\frac{1}{2}$ E) $\frac{5}{2}$

3. $3x + 4y - 12 = 0$ doğrusi ile y ekseni üzerinde dik kesişen doğrunun denklemi nedir?

A) $4x - 3y + 6 = 0$ B) $3x + 4y - 6 = 0$
C) $4x - 3y + 9 = 0$ D) $4y - 3x - 3 = 0$
E) $4x + 3y + 12 = 0$

4.



$4|AO| = 3|OB|$
$\Rightarrow d = ?$

A) $3y - 4x + 6 = 0$ B) $2x - 3y - 6 = 0$
C) $3x + 4y - 14 = 0$ D) $3x - 4y - 5 = 0$
E) $2x + 2y - 9 = 0$

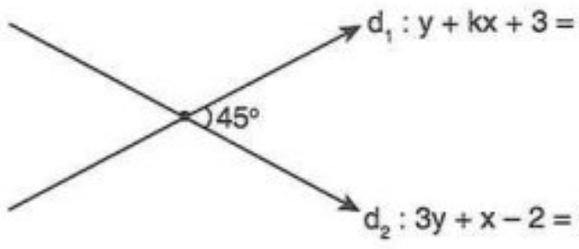
5. $-7x + ky - 21 = 0$ doğrusu ile eksenler arasında kalan bölgenin alanı $\frac{21}{2}$ br^2 dir. ($k \in R^+$)
$\Rightarrow k = ?$

A) 14 B) 7 C) 5 D) 4 E) 3

6. $y - 2x + 5 = 0$ ve $y + 3x - 6 = 0$ doğruları arasındaki dar açının tanjantı kaçtır?
What is tangential of the acute angle between the lines?

A) 1 B) $\frac{4}{3}$ C) $\frac{5}{2}$ D) $\frac{8}{3}$ E) $\frac{14}{3}$

7.



$\Rightarrow \sum k = ?$

A) $-\frac{4}{5}$ B) $\frac{5}{4}$ C) $\frac{6}{5}$ D) $\frac{5}{6}$ E) $\frac{3}{2}$

8. $-x + y + 1 = 0$
$\sqrt{3}x + y - 13 = 0$
doğruları arasındaki geniş açı kaç derecedir?
What is the measure of the abtuse angle between the lines?

A) 175 B) 150 C) 165 D) 120 E) 105

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9. Analitik düzlemde A(4, –3) ve B(2, 5) noktaları verilsin

[AB] nin orta dikmesinin denklemi nedir?

A) $2x + y - 5 = 0$ B) $2x - 3y + 1 = 0$

C) $x - 4y + 1 = 0$ D) $-y - 4x + 12 = 0$

E) $y + 4x - 13 = 0$

10. **A(3m + 1, 2m – 3) noktalarının geometrik yer denklemi aşağıdakilerden hangisidir?**

A) $4x - 3y + 1 = 0$ B) $4x + 3y - 2 = 0$

C) $2x - 5y + 11 = 0$ D) $3y - 2x + 11 = 0$

E) $5x - 2y - 6 = 0$

11. **$x = 2k - 4$ ve $y = 3 + k$ parametrik denklemleriyle tanımlanan doğrunun denklemi aşağıdakilerden hangisidir?**

A) $3x + 2y - 5 = 0$ B) $2y - x - 10 = 0$

C) $2x - y + 5 = 0$ D) $2x + y + 5 = 0$

E) $2x - 3y + 4 = 0$

12. **$y(2k + 1) - k(x - 1) + 3k + 1 = 0$ doğrularının kesim noktası aşağıdakilerden hangisidir?**

A) (–1, –1) B) (2, 2) C) (2, –1)

D) (–2, –1) E) (1, 2)

13. **$(2k - 1)x + (k - 1)y - 5 + k = 0$ doğrularının kesim noktası ve (2, –1) noktasından geçen doğrunun denklemi aşağıdakilerden hangisidir?**

A) $y + 4x - 7 = 0$ B) $4x - y + 5 = 0$

C) $2y - 4x + 5 = 0$ D) $2x - 4y + 5 = 0$

E) $2x - y - 3 = 0$

14. **A(2, 1) ve B(1, –2) noktalarına eşit uzaklıktaki noktaların geometrik yer denklemi aşağıdakilerden hangisidir?**

A) $2x + 3y - 2 = 0$ B) $x + 3y = 0$

C) $3y - 2x + 4 = 0$ D) $4x - 5y + 6 = 0$

E) $2x + 3y - 6 = 0$

15. **$-x + 4y + 3 = 0$ ve $4x - y + 2 = 0$ doğrularının açıortay doğrularından birinin denklemi aşağıdakilerden hangisidir?**

A) $5x + 4y - 5 = 0$ B) $x - 4y + 2 = 0$

C) $3x + 3y + 5 = 0$ D) $2x - 4y + 3 = 0$

E) $-3x + 2y - 5 = 0$

16. **$3x - 2y + 4 = 0$ ve $3x - 2y - 6 = 0$ doğrularına eşit uzaklıkta bulunan noktaların geometrik yer denklemi nedir?**

A) $3x + 2y - 5 = 0$ B) $3x + 4y + 5 = 0$

C) $3x + 2y - 3 = 0$ D) $3x - 2y - 1 = 0$

E) $3x - 2y - 4 = 0$

1. D	2. E	3. C	4. C	5. E	6. A	7. E	8. E
9. C	10. D	11. B	12. C	13. A	14. B	15. C	16. D

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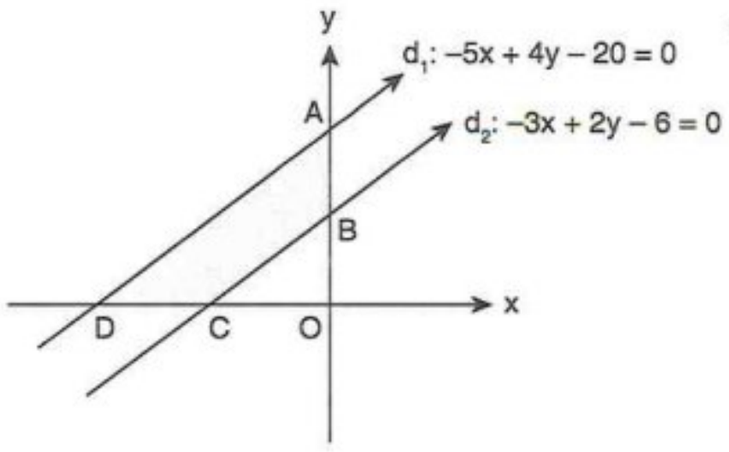
الممسوحة ضوئيا بـ CamScanner

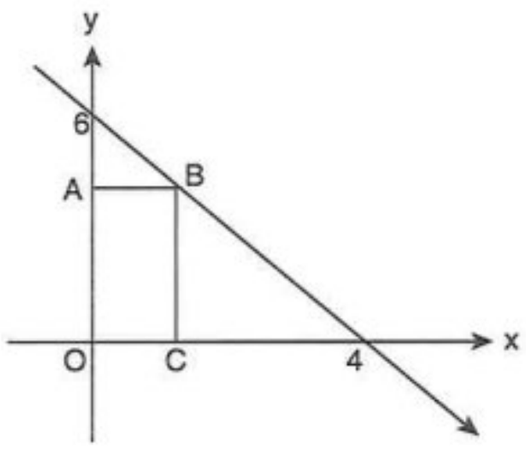
1.



⇒ **A(ABCD) = ?**

A) 5 B) $\frac{11}{2}$ C) 7 D) $\frac{23}{2}$ E) 16

2.



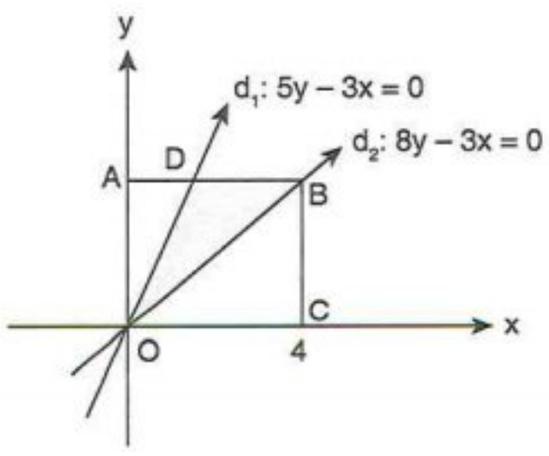
ABCD dikdörtgen
(*rectangle*)

|BC| = 3|AB|

⇒ **A(ABCO) = ?**

A) $\frac{16}{3}$ B) 6 C) 8 D) $\frac{25}{2}$ E) 24

3.



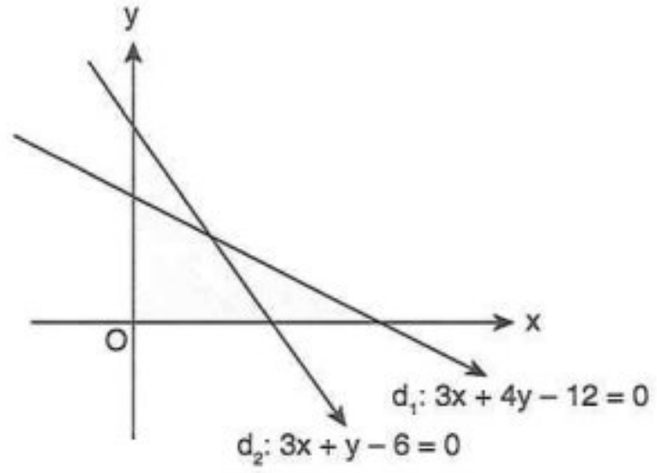
ABCD dikdörtgen
(*rectangle*)

|BC| = 3|AB|

⇒ **A(DBO) = ?**

A) $\frac{9}{8}$ B) $\frac{9}{4}$ C) $\frac{9}{2}$ D) $\frac{15}{2}$ E) $\frac{16}{3}$

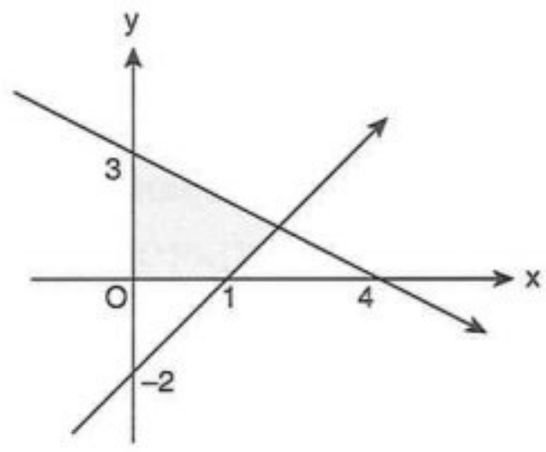
4.



⇒ **Taralı Alan = ?**
(*shaded area*)

A) 4 B) 6 C) 8 D) 12 E) 16

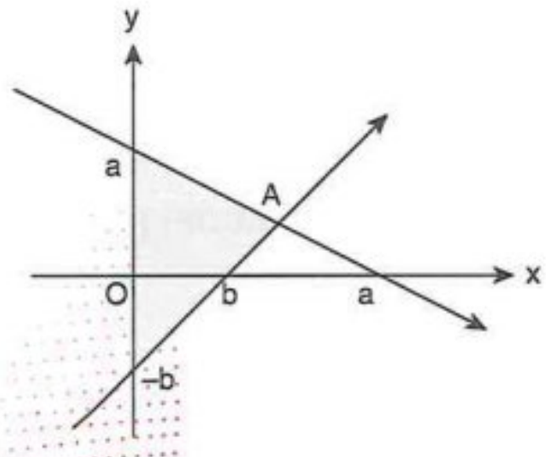
5.



⇒ **Taralı Alan = ?**
(*shaded area*)

A) 11 B) 8 C) $\frac{39}{11}$ D) $\frac{7}{21}$ E) $\frac{5}{2}$

6.



⇒ **Taralı Alan = ?**
(*shaded area*)

A) $\frac{a^2+b^2}{2}$ B) $\frac{a^2+b^2}{4}$ C) $\frac{(a+b)^2}{2}$ D) $\frac{(a+b)^2}{4}$ E) $\frac{a^2-b^2}{2}$

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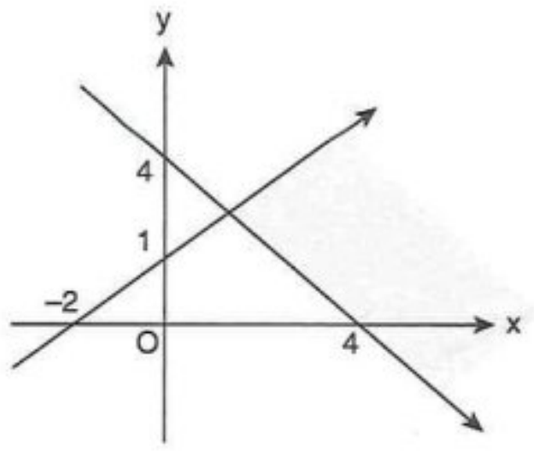
الممسوحة ضوئيا بـ CamScanner

7.



⇒ **Taralı Bölge = ?**
(*shaded region*)

A) $2y - x - 2 \geq 0$
$y + x - 4 \leq 0$

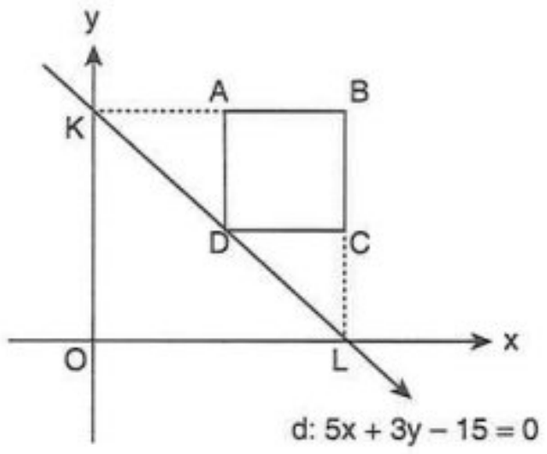
B) $-x + 2y - 2 \leq 0$
$x + y - 4 \geq 0$

C) $2y - x - 2 \geq 0$
$y + x - 4 \geq 0$

D) $-x + 2y - 2 < 0$
$x + y - 4 < 0$

E) $2x - y - 2 \geq 0$
$-x + y - 4 \geq 0$

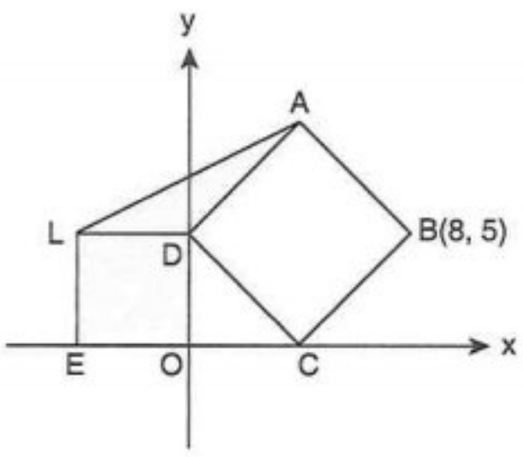
8.



ABCD kare (*square*)
[AB] // [OL]
⇒ **Ç(ABCD) = ?**

A) 5 B) 7 C) $\frac{15}{2}$ D) $\frac{15}{4}$ E) $\frac{15}{8}$

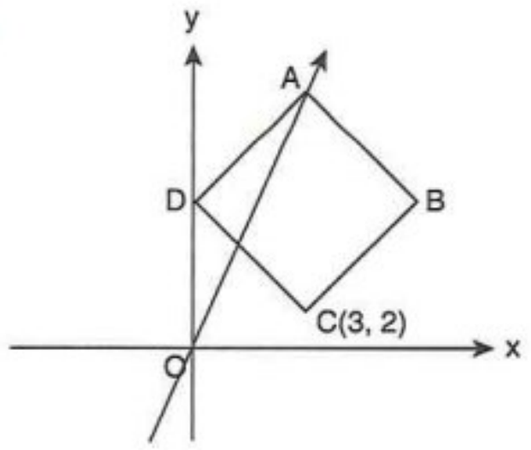
9.



ABCD, DOEL kare (square)
⇒ **A(ADOEL) = ?**

A) $\frac{13}{2}$ B) $\frac{27}{4}$ C) $\frac{33}{2}$ D) 17 E) 24

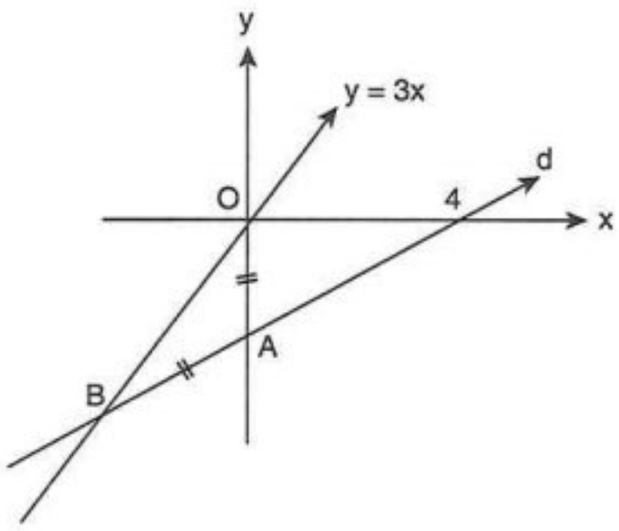
10.



ABCD kare (*square*)
|AB| = 5 br
⇒ **d= ?**

A) $4y - 9x = 0$ B) $-5x + 3y = 0$
C) $9x - 4y = 0$ D) $3x + 5y = 0$
E) $2x + 3y - 6 = 0$

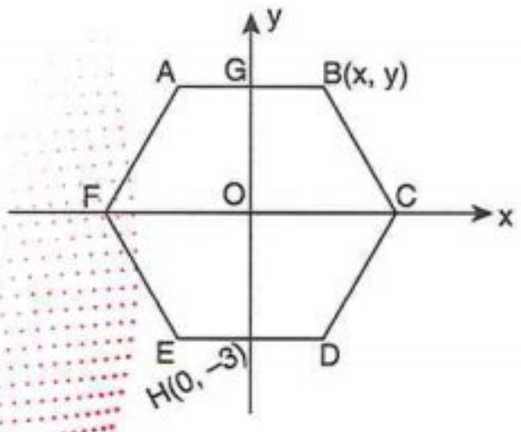
11.



|OA| = |AB|
⇒ **d = ?**

A) $3y - 4x - 16 = 0$ B) $4x + 3y + 16 = 0$
C) $3y - 4x + 16 = 0$ D) $3x - 4y - 12 = 0$
E) $3x + 4y + 12 = 0$

12.



|OA| = |AB|
⇒ **d = ?**

A) $3 + \sqrt{3}$ B) 6 C) 9
D) $2\sqrt{3} + 3$ E) $4\sqrt{3} + 3$

1. C	2. A	3. A	4. C	5. C	6. D
7. B	8. C	9. C	10. A	11. C	12. A

IRANINOVIN
الممسوحة ضوئيا بـ CamScanner

VEKTÖRLER

VECTORS

KONU KAVRAMA TESTİ
Thread Grip Test

ZİHİN HARİTASI
Mind Map

3
TEST
Tests

75
SORU
Questions

ANER YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS CANER eğitim kurumları YÖS

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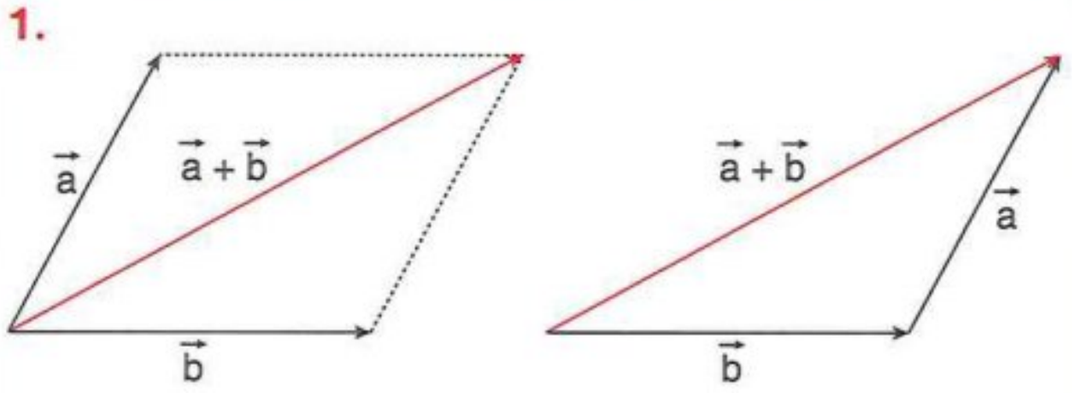
الممسوحة ضوئيا بـ CamScanner

VEKTÖRLER
VECTORS

CANER eğitim kurumları

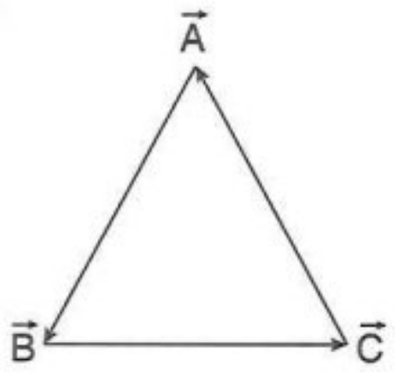
1.



2.

$\vec{A}$ ——→ $\vec{B}$	$\vec{AB}$
$\vec{A}$ ←—— $\vec{B}$	$\vec{BA} = -\vec{AB}$
$k \in R$	$\vec{a}$ ——→
$k > 0$	$\vec{ka}$ ——→
$k < 0$	$\vec{ka}$ ←——

3.



$\vec{AB} + \vec{BC} + \vec{CA} = \vec{AA} = 0$

$\vec{BC} + \vec{CA} = \vec{BA}$

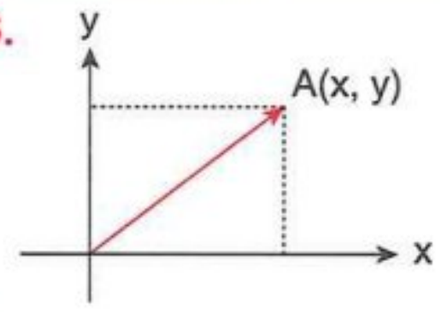
4. $\vec{A}(x_1, y_1)$ ——→ $\vec{B}(x_2, y_2)$

$\vec{AB} = \vec{B} - \vec{A} = (x_2, y_2) - (x_1, y_1) = (x_2 - x_1, y_2 - y_1)$

5. $\vec{A}(x_1, y_1)$, $\vec{B}(x_2, y_2)$

- $\vec{A} = \vec{B} \Rightarrow x_1 = x_2 , y_1 = y_2$
- $\vec{A} + \vec{B} = (x_1 + x_2 , y_1 + y_2)$
- $\vec{A} - \vec{B} = (x_1 - x_2 , y_1 - y_2)$
- $k \in R$, $k \cdot \vec{A} = k \cdot (x_1, y_1) = (kx_1, kx_2)$

6.



$|\vec{A}| = \|\vec{A}\| = \sqrt{x^2 + y^2}$

7. $\vec{A} = (x, y)$, $|\vec{A}| = \sqrt{x^2 + y^2}$

$\vec{A}$ ile aynı yönlü birim vektörü (unit vector with the same direction of $\vec{A}$) $I_A = \dfrac{\vec{A}}{|\vec{A}|}$

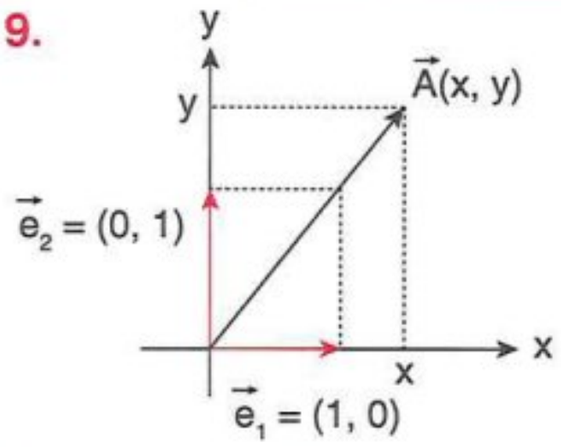
$\vec{A}$ ile zıt yönlü birim vektörü (unit vector with the opposite direction of $\vec{A}$) $-I_A = -\dfrac{\vec{A}}{|\vec{A}|}$

8. $\vec{A}(x_1, y_1)$, $\vec{B}(x_2, y_2)$

$\vec{A} \,//\, \vec{B} \Rightarrow \dfrac{y_1}{x_1} = \dfrac{y_2}{x_2}$ $\qquad$ $\vec{A} \perp \vec{B} \Rightarrow \dfrac{y_1}{x_1} \cdot \dfrac{y_2}{x_2} = -1$

$(x_1 \,.\, x_2 + y_1 \,.\, y_2 = 0)$

9.

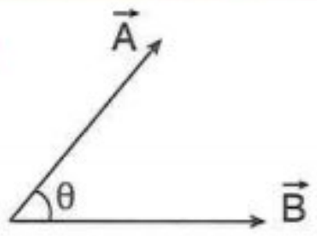


$\vec{A} = x \cdot \vec{e}_1 + x \cdot \vec{e}_2$
$= x \cdot (1, 0) + y \cdot (0, 1)$
$= (x, 0) + (0, y)$
$= (x, y)$

10. $\vec{A}(x_1, y_1)$, $\vec{B}(x_2, y_2)$

$\vec{A} \cdot \vec{B} = < \vec{A} , \vec{B} > = x_1 \cdot x_2 + y_1 \cdot y_2$

11.

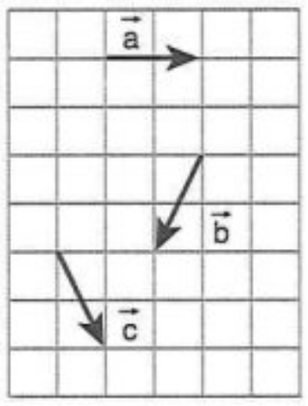


$\vec{A} \cdot \vec{B} = < \vec{A} , \vec{B} > = |\vec{A}| \cdot |\vec{B}| \cdot \cos\theta$

$\vec{A} \perp \vec{B}$	$\xRightarrow{(\cos 90° = 0)}$	$< \vec{A} , \vec{B} > = 0$
$\vec{A}$ ——→ ←—— $\vec{B}$	$\xRightarrow{(\cos 180° = -1)}$	$< \vec{A} , \vec{B} > = -\lvert\vec{A}\rvert \cdot \lvert\vec{B}\rvert$
$\vec{A}$ ——→ ——→ $\vec{B}$	$\xRightarrow{(\cos 0° = 1)}$	$< \vec{A} , \vec{B} > = \lvert\vec{A}\rvert \cdot \lvert\vec{B}\rvert$

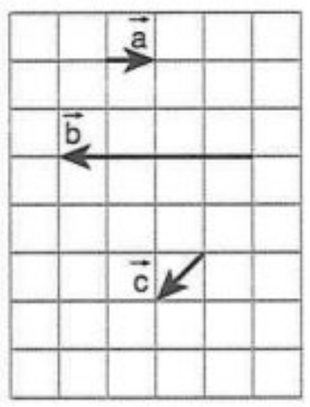
IRANINOVIN

الممسوحة ضوئيا بـ CamScanner

1. 

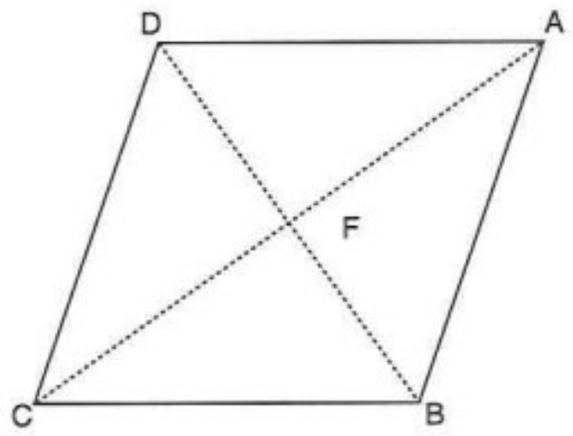
$\Rightarrow \vec{a}+\vec{b}+\vec{c}=?$

A) $2\vec{a}$ B) $2\vec{c}$ C) $2\vec{b}$ D) $\vec{a}$ E) $\frac{\vec{a}}{2}$

2. 

$\Rightarrow 2\vec{a}-\frac{\vec{b}}{2}+3\vec{c}=?$

A) B) C) D) E)

3. 

ABCD paralelkenar (*parallelogram*)

$\Rightarrow \overrightarrow{AF}+\overrightarrow{CD}=?$

A) $\overrightarrow{FA}$ B) $\overrightarrow{BA}$ C) $\overrightarrow{AB}$ D) $\overrightarrow{BF}$ E) $\overrightarrow{FB}$

4. $\vec{A}(2, 1)$ ve $\vec{B}(4, 3)$

$\Rightarrow \overrightarrow{AB}=?$

A) (4, 3) B) (2, 2) C) (3, –1)
D) (4, 4) E) (6, 4)

5. $\vec{A}(4, -3)$, $\vec{B}(2, -8)$

$\Rightarrow \overrightarrow{BA}=?$

A) (3, 5) B) (6, –11) C) (2, 5)
D) (4, 4) E) (–2, 5)

6. $\overrightarrow{AB}(-9, 3)$, B(2, 4)

$\Rightarrow A(x, y)=?$

A) (–7, 7) B) (–11, 4) C) (1, 12)
D) (11, 1) E) (–11, –1)

7. $\vec{A}(2x-1, 4)$, $\vec{B}(8, 4y-2)$, $\vec{A}=\vec{B}$

$\Rightarrow x+y=?$

A) 6 B) $\frac{9}{2}$ C) $\frac{11}{3}$ D) –3 E) –12

8. $\vec{A}(-2, 4)$, $\vec{B}(8, -3)$, $\vec{C}(9, -2)$, $\vec{D}(a, b)$, $\overrightarrow{BC}=\overrightarrow{AD}$

$\Rightarrow 2a+3b=?$

A) 11 B) 13 C) 15 D) 17 E) 19

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9. $\vec{A}(2, -1)$, $\vec{B}(-8, 4)$

$\Rightarrow 2\vec{A} + \vec{B} = ?$

A) (2, –3) B) (–4, 3) C) (2, –4)
D) (–4, –4) E) (–4, 2)

10. $\vec{A}(2, -3)$, $\vec{B}(-5, 2)$, $\vec{C}(4, 6)$, $\vec{D}(2, -3)$

$\Rightarrow \overrightarrow{AD} - \overrightarrow{BC} = ?$

A) (4, –3) B) (4, 9) C) (–3, 4)
D) (9, 4) E) (–9, –4)

11. $2\vec{A} + \vec{B} = (2, -8)$
$\vec{A} + \vec{B} = (4, -2)$

$\Rightarrow \vec{A} = ?$

A) (6, –3) B) (–2, –6) C) (6, 2)
D) (4, 8) E) (–8, 4)

12. $\vec{A} = (-5, -12)$

$\Rightarrow \|\vec{A}\| = ?$

A) 17 B) 15 C) 13 D) 6 E) 3

13. $\vec{A} = (3, x)$, $\|\vec{A}\| = 5$

$\Rightarrow \sum x = ?$

A) 0 B) 1 C) 2 D) 3 E) 4

14. $\vec{A}(-2, 4)$, $\vec{B}(-6, 3)$

$\Rightarrow \|\overrightarrow{BA}\| = ?$

A) 2 B) $2\sqrt{3}$ C) 4 D) $\sqrt{17}$ E) 5

15. **Aşağıdakilerden hangisi birim vektördür?**

A) $\vec{A}\left(\frac{3}{\sqrt{2}}, \frac{4}{\sqrt{3}}\right)$ B) $\vec{A}(1, 1)$ C) $\vec{A}(\sqrt{3}, 4)$
D) $\vec{A}(2, -1)$ E) $\vec{A}\left(\frac{1}{\sqrt{3}}, \sqrt{\frac{2}{3}}\right)$

16. $\vec{A} = (2, -1)$ **vektörüyle zıt yönlü birim vektörü nedir?**

A) (–1, 2) B) (–2, 1) C) $\left(-\frac{2}{\sqrt{5}}, \frac{1}{\sqrt{5}}\right)$
D) $\left(\frac{1}{\sqrt{5}}, \frac{2}{\sqrt{5}}\right)$ E) $(2\sqrt{5}, \sqrt{5})$

1. B	2. C	3. D	4. B	5. C	6. D	7. A	8. B
9. E	10. E	11. B	12. C	13. A	14. D	15. E	16. C

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17. $\vec{A} = (5, -12)$ vektörüyle aynı yönlü birim vektörü nedir?

A) $(-12, 5)$ B) $\left(\frac{5}{13}, -\frac{12}{13}\right)$ C) $(5, 13)$

D) $(13, 0)$ E) $\left(-\frac{5}{13}, -\frac{12}{13}\right)$

18. $\vec{A}(4, -5)$, $\vec{B}(k, 10)$, $\vec{A} /\!/ \vec{B}$

$\Rightarrow k = ?$

A) 8 B) 3 C) 1 D) –4 E) –8

19. $\vec{A}(3, -4)$, $\vec{B}(2, -1)$, $\vec{C}(3, k)$, $\overrightarrow{BA} /\!/ \vec{C}$

$\Rightarrow k = ?$

A) 7 B) 4 C) –3 D) –9 E) –16

20. $\vec{A}(4, -8)$, $\vec{B}(a, 2)$, $\vec{A} \perp \vec{B}$

$\Rightarrow a = ?$

A) 4 B) 8 C) 12 D) 16 E) 20

21. $\vec{A}(3, -2)$, $\vec{B}(2, 1)$, $\vec{C}(2, 2)$, $\vec{D}(-2, x)$, $\overrightarrow{AC} \perp \overrightarrow{BD}$

$\Rightarrow x = ?$

A) 8 B) 4 C) 0 D) –3 E) –5

22. $\vec{A} = 3\vec{e}_1 - 5\vec{e}_2$

$\Rightarrow \vec{A} = ?$

A) $(-2, 0)$ B) $(5, 3)$ C) $(3, -5)$

D) $(3, 5)$ E) $(3, -10)$

23. $\vec{A}(4, -1)$, $\vec{B}(-3, 2)$, $\vec{C}(0, 2)$, $x\vec{A} + y\vec{B} = \vec{C}$

$\Rightarrow x + y = ?$

A) $\frac{14}{5}$ B) $\frac{7}{2}$ C) 4 D) 12 E) $\frac{28}{2}$

24. $\vec{A}(4, -3)$, $\vec{B}(8, -3)$

$\Rightarrow \vec{A} \cdot \vec{B} = ?$

A) 15 B) 24 C) 36 D) 41 E) 53

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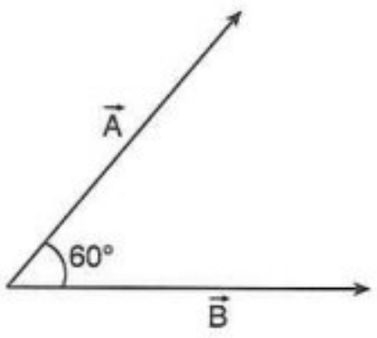
25. $\vec{A}(2, -1)$, $\vec{B}(3, 2)$, $\vec{C}(2, 3)$

$\Rightarrow \vec{BC} \cdot \vec{A} = ?$

A) –7 B) –3 C) 3 D) 6 E) 12

26.



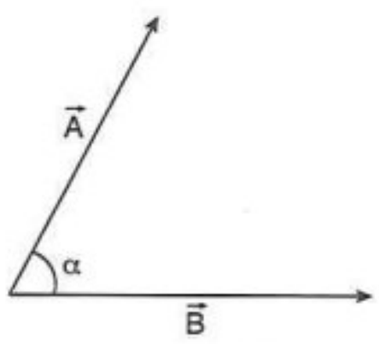
$\|\vec{A}\| = 2$ br

$\|\vec{B}\| = 4$ br

$\Rightarrow \langle \vec{A} \cdot \vec{B} \rangle = ?$

A) 15 B) 9 C) 4 D) 2 E) –4

27.



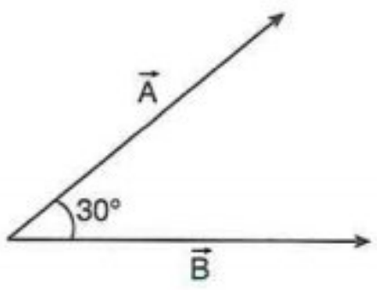
$\vec{A}(2, 1)$

$\vec{B}(4, -2)$

$\Rightarrow \cos\alpha = ?$

A) 4 B) $\frac{3}{52}$ C) 1 D) $\frac{6}{7}$ E) $\frac{4}{5}$

28.



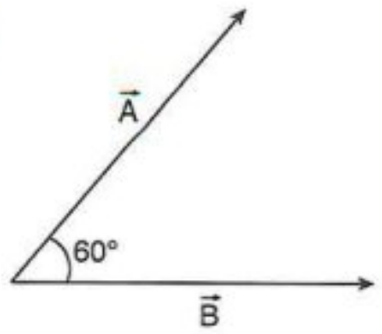
$\|\vec{A}\| = 2\sqrt{3}$ br

$\|\vec{B}\| = 4$ br

$\Rightarrow \|\vec{A} + \vec{B}\| = ?$

A) $2\sqrt{13}$ B) $4\sqrt{3}$ C) 6 D) $\sqrt{15}$ E) $2\sqrt{3}$

29.



$\|\vec{A}\| = 7$ br

$\|\vec{B}\| = 8$ br

$\Rightarrow \|\vec{A} - \vec{B}\| = ?$

A) 8 B) $\sqrt{57}$ C) $2\sqrt{13}$ D) $4\sqrt{3}$ E) 6

30. $\vec{A}(1, -2)$ vektörünün $\vec{B}(3, -4)$ vektörü üzerindeki dik izdüşüm vektörünün uzunluğu nedir?

A) $\frac{11}{5}$ B) 6 C) 9 D) 15 E) $\frac{33}{2}$

31. $\vec{A} = (1, 1)$ vektörünün $\vec{B}(-5, 12)$ vektörü üzerindeki dik izdüşüm vektörü nedir?

A) $\left(-\frac{35}{169}, \frac{84}{169}\right)$ B) $\left(-\frac{5}{169}, \frac{12}{169}\right)$ C) $\left(\frac{35}{169}, \frac{84}{144}\right)$

D) $\left(-\frac{5}{13}, \frac{12}{13}\right)$ E) $\left(\frac{84}{169}, \frac{35}{144}\right)$

17. B	18. E	19. D	20. A	21. C	22. C	23. A	24. D
25. B	26. C	27. B	28. A	29. B	30. A	31. A	

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1. $\vec{A}(8, 7)$, $\vec{B}(3, -1)$

$\Rightarrow \overrightarrow{BA} = ?$

A) (11, 6) B) (8, 5) C) (5, 8)
D) (–8, 5) E) (–6, 11)

2. $\overrightarrow{CD}(-8, -3)$, $\vec{D}(2, 1)$

$\Rightarrow \vec{C}(x, y) = ?$

A) (10, 4) B) (4, 10) C) (3, 5)
D) (–4, 10) E) (–5, 3)

3. $\vec{A}(-8, 6)$, $\vec{B}(4, 2k - 1)$, $2\vec{A} - \vec{B} = (-20, 0)$

$\Rightarrow k = ?$

A) 24 B) 15 C) 13 D) $\frac{13}{2}$ E) $\frac{5}{2}$

4. $\vec{A}(-2, 3)$, $\overrightarrow{BA}(4, 0)$, $\vec{C}(3, -2)$

$\Rightarrow \overrightarrow{AC} + \overrightarrow{CB} = ?$

A) (4, 4) B) (3, 2) C) (–5, 2)
D) (–2, 3) E) (–4, 0)

5. $\vec{A}(4, -8)$, $\vec{B}(2, -5)$

$\Rightarrow \frac{3}{2}\vec{A} - 2\vec{B} = ?$

A) (2, –2) B) (2, 2) C) (2, –4)
D) (4, –2) E) (4, –4)

6. $\vec{A}(2, -8)$, $\vec{B}(6, 0)$

$\Rightarrow \|2\overrightarrow{AB}\| = ?$

A) 48 B) $8\sqrt{5}$ C) 32 D) 16 E) 10

7. $\vec{T} = (x, y)$, $\|\vec{T}\| = 1$

$\Rightarrow \vec{T} = ?$

A) $\left(\frac{3}{5}, \frac{5}{4}\right)$ B) $\left(\frac{1}{\sqrt{3}}, -\frac{\sqrt{2}}{\sqrt{3}}\right)$ C) (1, 1)
D) (2, –1) E) $\left(\frac{5}{12}, \frac{12}{13}\right)$

8. $\vec{A}(4, -3)$, $\vec{B}(6, 0)$

$\Rightarrow \|2\vec{A} - \vec{B}\| = ?$

A) $2\sqrt{3}$ B) $3\sqrt{2}$ C) $4\sqrt{2}$ D) 6 E) $2\sqrt{10}$

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9. $\vec{A}(3, 2)$, $\vec{B}(3, y)$, $\vec{C}(x, -1)$, $3\overrightarrow{AC} = 2\vec{B}$

$\Rightarrow x + y = ?$

A) $\frac{9}{2}$ B) 3 C) $\frac{1}{2}$ D) -3 E) $-\frac{9}{2}$

10. $\vec{A}(4, -5)$, $\vec{B}(2, -8)$, $\vec{C}(2x - 1, 3)$, $\vec{D}(0, -2y + 2)$, $\overrightarrow{AB} = \overrightarrow{DC}$

$\Rightarrow \sqrt{x^2 \cdot y^4} = ?$

A) $\frac{1}{2}$ B) $\frac{9}{2}$ C) 2 D) 8 E) 12

11. $\vec{A}(y^2 - 1, -3)$, $\vec{B}(4, -1)$, $\vec{A} \parallel \vec{B}$ $(y \in R^+)$

$\Rightarrow y = ?$

A) $2\sqrt{6}$ B) 4 C) $2\sqrt{3}$ D) $2\sqrt{2}$ E) $\sqrt{13}$

12. $\vec{A}(x, -8)$, $\vec{B}(3, -2)$, $\vec{C}(-6, -9)$, $\vec{D}(-5, -2)$, $\overrightarrow{BA} \parallel \overrightarrow{DC}$

$\Rightarrow x = ?$

A) 1 B) $\frac{15}{7}$ C) 4 D) $\frac{19}{3}$ E) $\frac{22}{3}$

13. $\vec{A}(-8, -2)$, $\vec{B}(1, -a)$, $\vec{A} \perp \vec{B}$

$\Rightarrow a = ?$

A) 1 B) 2 C) 3 D) 4 E) 5

14. $\vec{A}(-6, 2)$, $\vec{B}(3, -1)$, $\vec{C}(x, 2)$, $\vec{D}(3, 2)$, $\overrightarrow{AB} \perp \overrightarrow{DC}$

$\Rightarrow x = ?$

A) 12 B) 9 C) 6 D) 3 E) -3

15. $\vec{A} = -2\vec{e}_2 + \vec{e}_1$

$\vec{B} = 2\vec{e}_1 + 3\vec{e}_2$

$\Rightarrow \|2\vec{A} + \vec{B}\| = ?$

A) $\sqrt{17}$ B) 5 C) $\sqrt{29}$ D) 6 E) 7

16. $\vec{A}(1, 2)$, $\vec{B}(-2, 3)$, $\vec{C}(2, -3)$, $x\vec{A} + y\vec{B} = \vec{C}$

$\Rightarrow x + y = ?$

A) 8 B) 3 C) -1 D) -5 E) -16

1. C	2. A	3. D	4. E	5. A	6. B	7. B	8. E
9. C	10. C	11. E	12. B	13. D	14. D	15. A	16. C

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1. $\overrightarrow{BA} = (4, -2)$, $\overrightarrow{BC} = (1, 5)$

$\Rightarrow \overrightarrow{AC} = ?$

A) (5, 3) B) (7, –3) C) (3, –5) D) (–3, 7) E) (2, 7)

2. $\vec{A}(-2, 4)$, $\vec{B}(4, -8)$, $\vec{T}(2, -8)$, $\vec{U} = \overrightarrow{BA} - \vec{T}$

$\Rightarrow \vec{U} = ?$

A) (2, –4) B) (20, –8) C) (–8, 20) D) (–5, 12) E) (12, 5)

3. $\vec{A}(3, -9)$, $\vec{B}(2x + 3, 2)$, $\langle \vec{A} \cdot \vec{B} \rangle = 4$

$\Rightarrow x = ?$

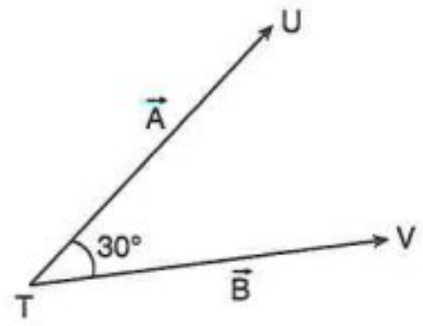
A) $-\frac{5}{2}$ B) $-\frac{13}{4}$ C) 1 D) 5 E) $\frac{13}{6}$

4. $\overrightarrow{AB}(2, 2)$, $\overrightarrow{CB}(4, -2)$, $\overrightarrow{BD}(-8, 4)$

$\Rightarrow \overrightarrow{AC} \cdot \overrightarrow{DC} = ?$

A) –24 B) –16 C) –8 D) 8 E) 16

5.



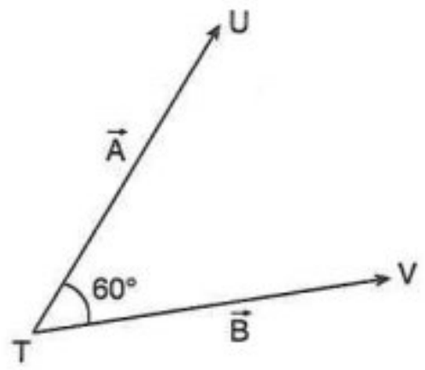
$\|\vec{A}\| = 4\sqrt{3}$ br

$\|\vec{B}\| = 3$ br

$\Rightarrow \vec{A} \cdot \vec{B} = ?$

A) 18 B) 15 C) 10 D) 8 E) 6

6.



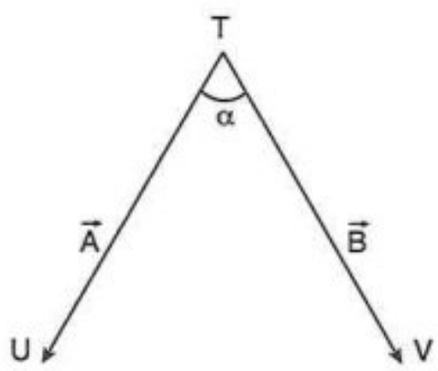
$\|\vec{A}\| = 6$ br

$\langle \vec{A} \cdot \vec{B} \rangle = 2$ br

$\Rightarrow \|\vec{B}\| = ?$

A) $\frac{25}{2}$ B) 12 C) $\frac{25}{6}$ D) 3 E) $\frac{2}{3}$

7.



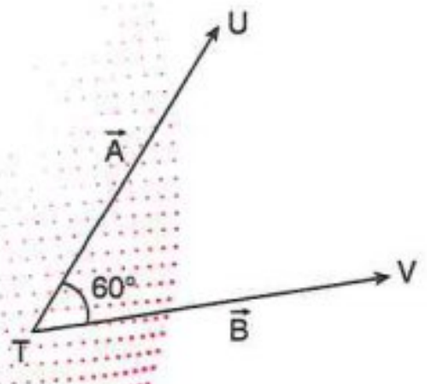
$\vec{A} = (-3, -1)$

$\vec{B} = (2, -1)$

$\Rightarrow \alpha = ?$

A) 150 B) 135 C) 120 D) 60 E) 45

8.



$\vec{A} = (k, 3)$

$\vec{B} = (3, k)$

$\Rightarrow k = ?$

A) $3 + 3\sqrt{3}$ B) $6 + 3\sqrt{3}$ C) $6 + \sqrt{13}$ D) $3 + \sqrt{14}$ E) 3

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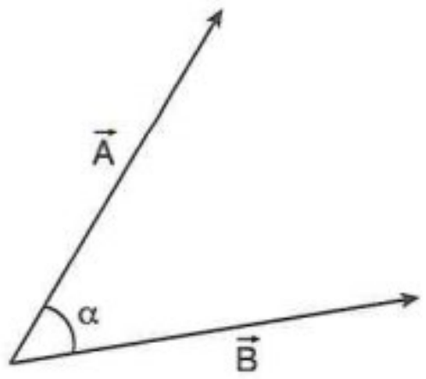
9.



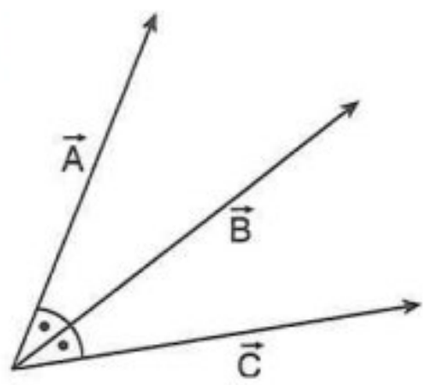
$\vec{A} = (6, 3)$

$\vec{B} = (4, -2)$

$\Rightarrow \cos\alpha = ?$

A) $\frac{9}{10}$ B) $\frac{4}{5}$ C) $\frac{5}{7}$ D) $\frac{3}{5}$ E) $-\frac{3}{5}$

10.



$\vec{A} = (12, 5)$

$\vec{B} = (1, x)$

$\vec{C} = (3, 4)$

$\Rightarrow x = ?$

A) $\frac{15}{2}$ B) $\frac{23}{5}$ C) 4 D) $\frac{9}{7}$ E) $\frac{7}{9}$

11. $\|\vec{A}\| = 3$ br

$\|\vec{B}\| = 2$ br

$\|\vec{A} + \vec{B}\| = 2\sqrt{5}$ br

$\Rightarrow \|\vec{A} - \vec{B}\| = ?$

A) 1 B) 2 C) $\sqrt{5}$ D) $\sqrt{6}$ E) $\sqrt{7}$

12. $\vec{A} \cdot \vec{A} = 4$ br

$\vec{B} \cdot \vec{B} = 2$ br

$\vec{A} \cdot \vec{B} = 3$ br

$\Rightarrow (3\vec{A} - \vec{B}) \cdot (2\vec{A} + \vec{B}) = ?$

A) 33 B) 29 C) 25 D) 8 E) 4

13. $\vec{A}$, $\vec{B}$ ve $\vec{C}$ vektörleri için $\vec{B} \perp \vec{C}$, $\vec{A} - \vec{C} = \vec{B}$ ve $\|\vec{A}\| = 2\|\vec{C}\|$ ise $\vec{A}$ ile $\vec{C}$ vektörleri arasındaki açı kaç derecedir?

A) 30° B) 60° C) 75° D) 120° E) 150°

14. $\vec{A}(2, 1)$, $\vec{B}(0, -1)$, $\vec{C}(3, 1)$

$\Rightarrow (\overrightarrow{AB} + \overrightarrow{CB}) \cdot \overrightarrow{BA} = ?$

A) –18 B) –6 C) 0 D) 3 E) 5

15. $4\vec{A} + 2\vec{B} = (6, -2)$

$3\vec{A} - \vec{B} = (2, -4)$

$\Rightarrow \vec{A} \cdot \vec{B} = ?$

A) $\frac{7}{2}$ B) $\frac{5}{2}$ C) $\frac{9}{8}$ D) 0 E) –3

16. $\vec{A}(2, -1)$ ve $\vec{C}(6, -8)$, $\vec{A}$ vektörüne dik ve, $\vec{D} \cdot \vec{C} = -1$ koşulunu sağlayan $\vec{D}$ vektörü aşağıdakilerden hangisidir?

A) $\left(\frac{1}{3}, \frac{1}{5}\right)$ B) $\left(\frac{2}{5}, \frac{1}{10}\right)$ C) $\left(-\frac{2}{3}, \frac{3}{4}\right)$ D) $\left(\frac{3}{2}, -\frac{5}{2}\right)$ E) $\left(\frac{1}{10}, \frac{1}{5}\right)$

1. D	2. C	3. E	4. B	5. A	6. E	7. B	8. B
9. D	10. E	11. D	12. C	13. B	14. A	15. D	16. E

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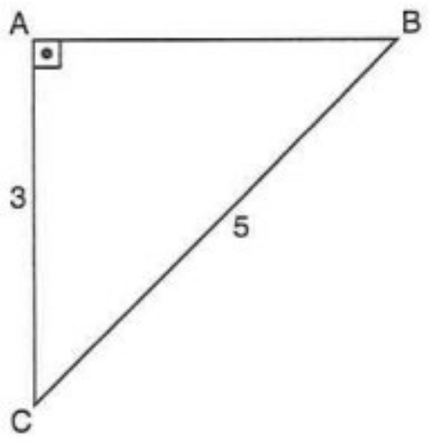
1.



$[AB] \perp [AC]$

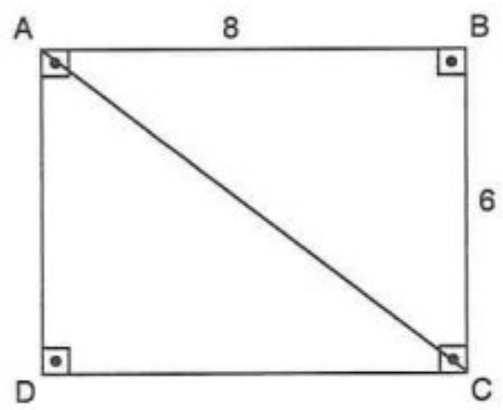
$|AC| = 3$ br

$|BC| = 5$ br

$\Rightarrow \langle \overrightarrow{AB}, \overrightarrow{BC} \rangle = ?$

A) 8 B) 4 C) –16 D) –20 E) –25

2.



ABCD dikdörtgen (*rectangle*)

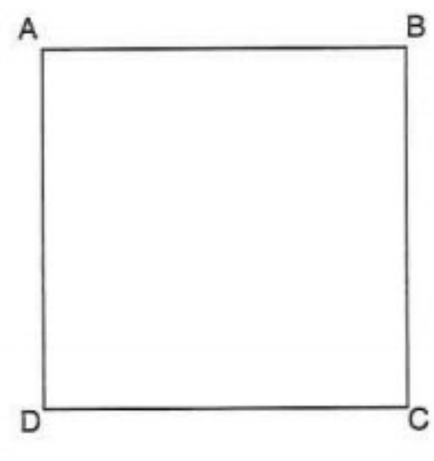
$|AB| = 8$ br

$|BC| = 6$ br

$\Rightarrow \langle \overrightarrow{AC}, \overrightarrow{DC} + \overrightarrow{BC} \rangle = ?$

A) 28 B) 36 C) 48 D) 72 E) 100

3.



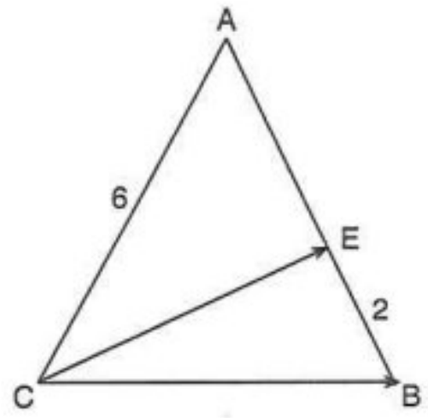
ABCD kare (*square*)

$|AB| = 4$ br

$\Rightarrow \langle \overrightarrow{BA}, \overrightarrow{BC} + \overrightarrow{CD} \rangle = ?$

A) 18 B) 16 C) 12 D) –4 E) –16

4.



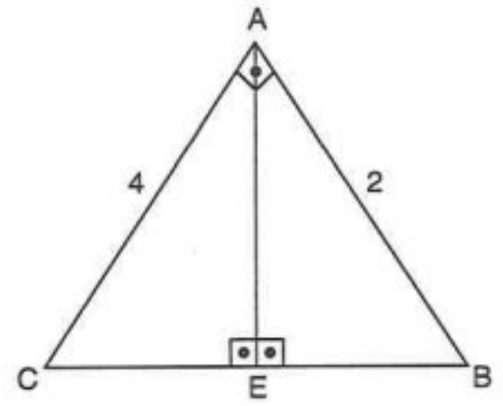
$|AB| = |BC| = |AC| = 6$ br

$|EB| = 2$ br

$\Rightarrow \langle \overrightarrow{CE}, \overrightarrow{CB} \rangle = ?$

A) 42 B) 30 C) 24 D) –16 E) –24

5.



$[AB] \perp [AC]$

$[AE] \perp [CB]$

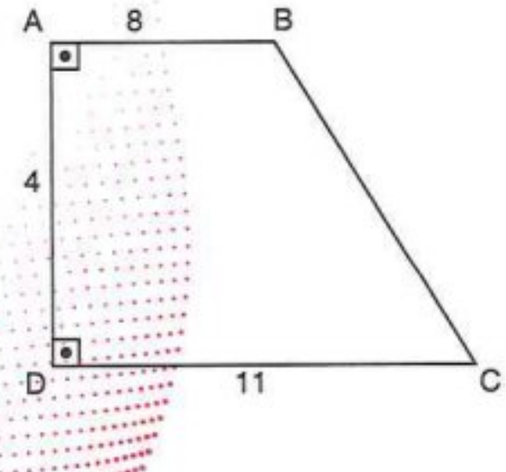
$|AB| = 2$ br

$|AC| = 4$ br

$\Rightarrow \langle \overrightarrow{AB}, \overrightarrow{AE} + \overrightarrow{AC} \rangle = ?$

A) 36 B) $\frac{32}{3}$ C) $\frac{16}{5}$ D) –3 E) $-\frac{16}{5}$

6.



ABCD dik yamuk (*right trapezoid*)

$|AB| = 8$ br

$|AD| = 4$ br

$|DC| = 11$ br

$\Rightarrow \langle \overrightarrow{CD}, \overrightarrow{CB} + \overrightarrow{AD} \rangle = ?$

A) –22 B) –13 C) –5 D) 11 E) 33

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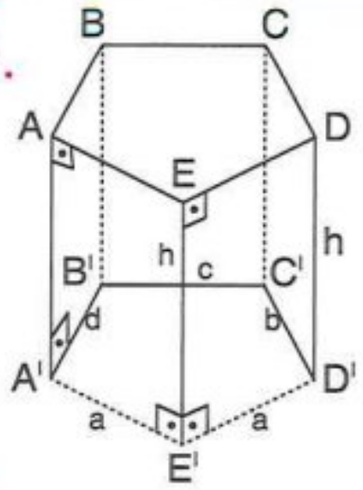
KATI CİSİMLER
SOLID OBJECTS

CANER eğitim kurumları

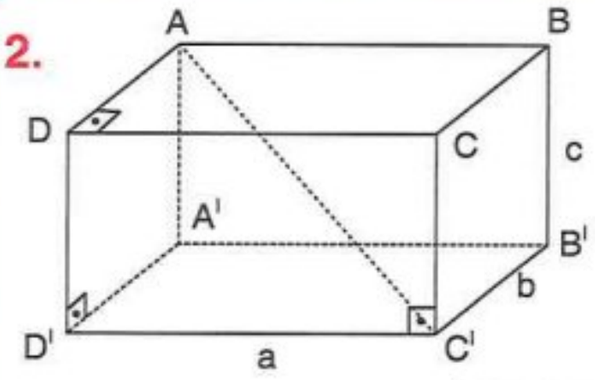
1.



Hacim (V) = Taban alanı · yükseklik (h)
Volume = Bottom area · height (h)

Yanal Alan = Taban çevresi · yükseklik
Lateral Area = Bottom circumface · height
= (a + b + c + d + e) · h

2. Dikdörtgenler Prizması
Rectangular prism



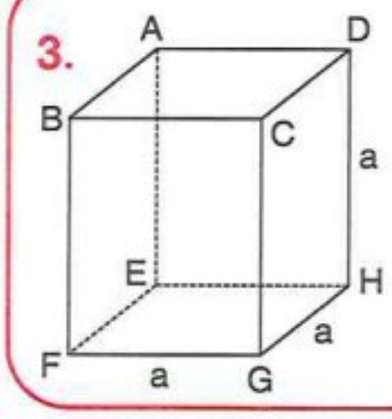
Hacim (V) = a · b · c
(Volume)

Yanal Alan = 2(a + b) · c
(Lateral area)

Yüzey Alanı = 2(ab + ac + bc)
(Surface area)

Cisim Köşegeni = $|AC'| = \sqrt{a^2+b^2+c^2}$
(Solid diagonal)

3. Küp (Cube)



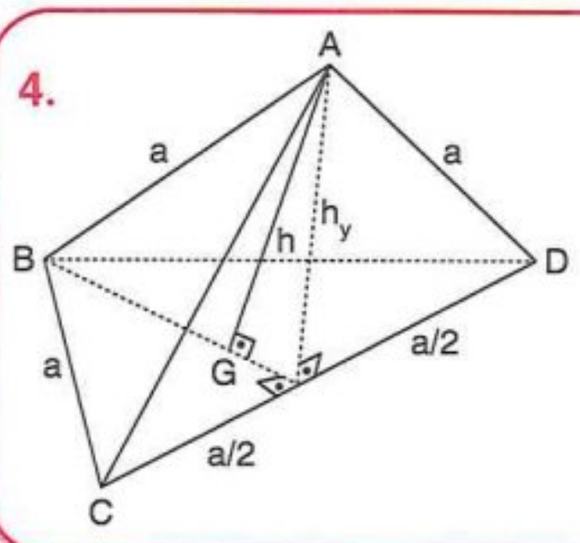
Hacim (V) = a^3
(Volume)

Yanal Alan = $4a^2$
(Lateral area)

Yüzey Alanı = $6a^2$
(Surface area)

Cisim Köşegeni = $a\sqrt{3}$
(Solid diagonal)

4. Düzgün Dörtyüzlü
Regular Tetrahedron

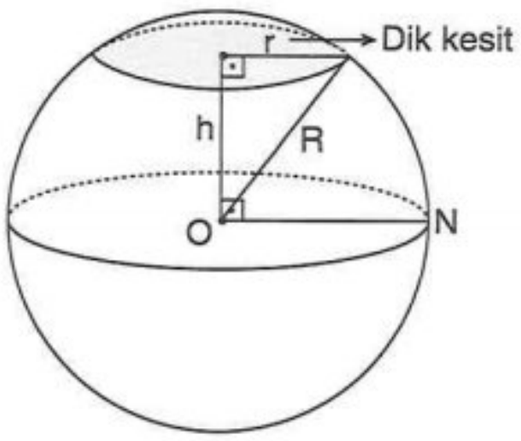


$h = \frac{a\sqrt{6}}{3}$ $\quad h_y = \frac{a\sqrt{3}}{2}$

$V_{(Hacim)} = \frac{a^3\sqrt{2}}{12}$
(Volume)

Yüzey Alanı = $a^2\sqrt{3}$
(Surface Area)

5. Küre (Sphere)

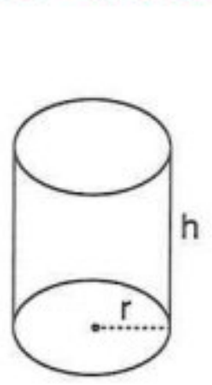


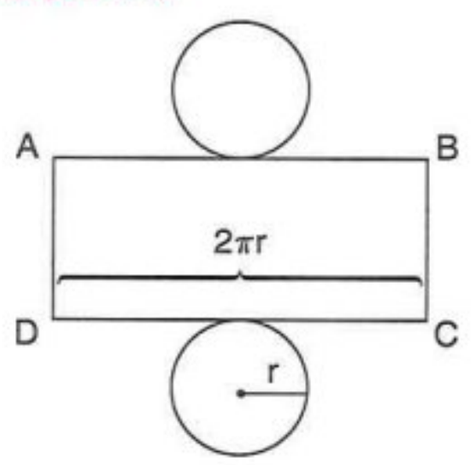
$V_{(Hacim)} = \frac{4\pi R^3}{3}$
(Volume)

Yüzey Alanı = $4\pi R^2$
(Surface Area)

Kesit Alanı = πr^2
(Cross Sectional Area)

6. Silindir (Cylinder)



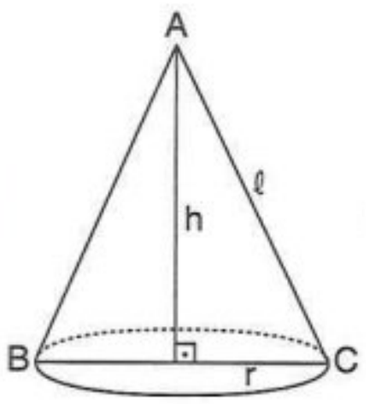


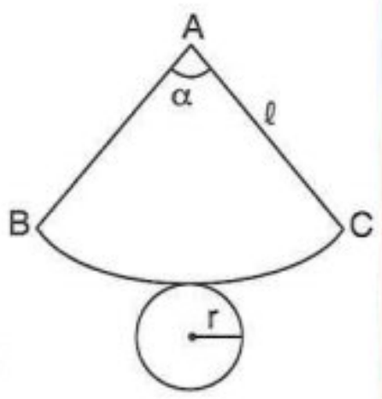
$V_{(Hacim)} = \pi r^2 \cdot h$
(Volume)

Yanal Alan = $2\pi r \cdot h$
(Lateral area)

Tüm Alan = $2(\pi r \cdot h + \pi r^2)$
(Total area)

7. Koni (Cone)





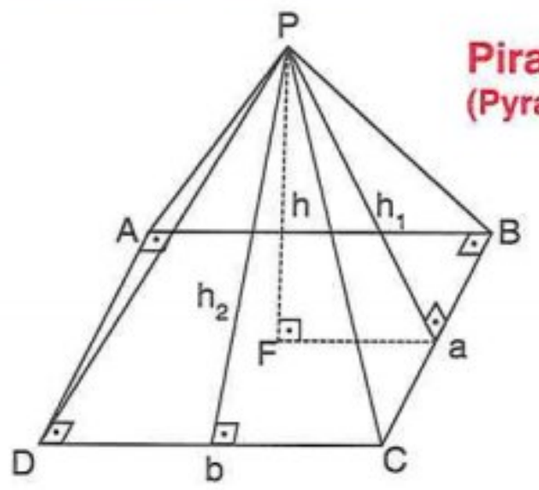
$V_{(Hacim)} = \frac{\pi r^2 h}{3}$
(Volume)

Yüzey Alanı = $\pi r^2 + \pi r\ell$
(Surface area)

Yanal Alan = $\pi r\ell$
(Lateral area)

$2\pi r = 2\pi\ell \cdot \frac{\alpha}{360°} \Rightarrow r = \ell \cdot \frac{\alpha}{360°}$

8. Piramit
(Pyramid)



$V_{(Hacim)} = \frac{a \cdot b \cdot h}{3}$
(Volume)

Yanal Alan = $a \cdot h_1 + b \cdot h_2$
(Lateral area)

Yüzey Alan = $a \cdot h_1 + b \cdot h_2 + a \cdot b$
(Surface area)

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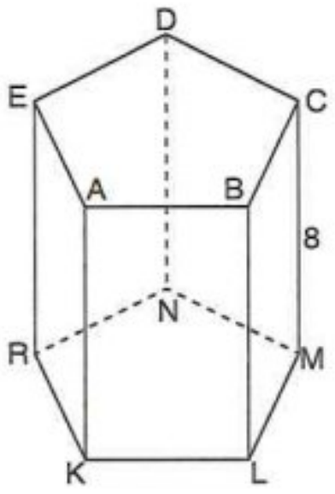
1.

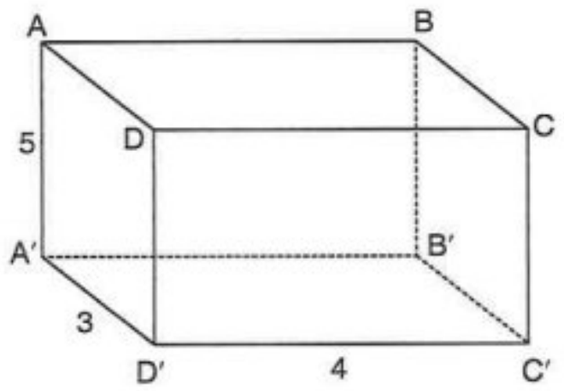


Düzgün beşgen prizma
(regular pentagon prism)
A(ABCDE) = 40 br²
|CM| = 8 br

⇒ **Hacim(V) = ?**
(volume(V) = ?)

A) 160 B) 200 C) 240 D) 300 E) 320

2.

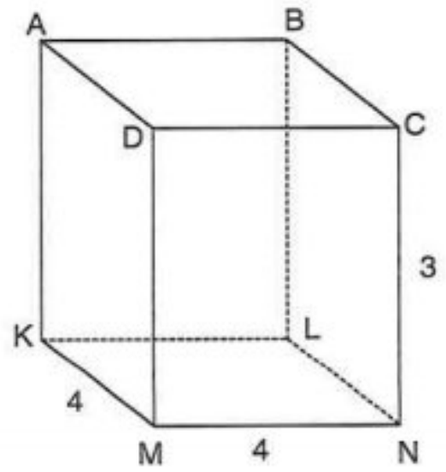


Dikdörtgenler prizması
(rectangular prism)
|AA′| = 5 br
|A′D′| = 3 br
|D′C′| = 4 br

⇒ **Hacim(V) = ?**
(volume(V) = ?)

A) 30 B) 45 C) 60 D) 75 E) 80

3.

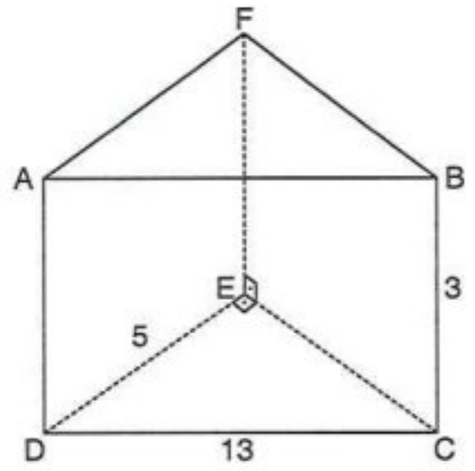


Kare dik prizma
(square right prism)
|MN| = |KM| = 4 br
|CN| = 3 br

⇒ **Hacim(V) = ?**
(volume(V) = ?)

A) 48 B) 52 C) 60 D) 64 E) 72

4.

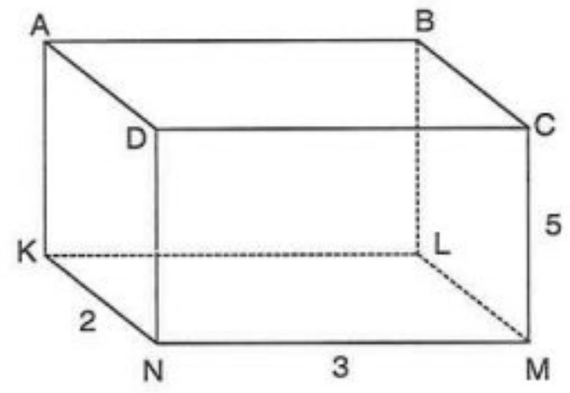


Dik üçgen prizma
(right triangle prism)
|DE| = 5 br
|BC| = 3 br
|DC| = 13 br

⇒ **Hacim(V) = ?**
(volume(V) = ?)

A) 65 B) 72 C) 80 D) 90 E) 96

5.

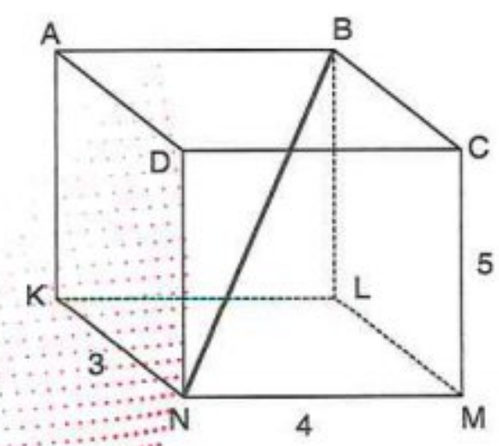


Dikdörtgenler prizması
(rectangular prism)
|CM| = 5 br
|KN| = 2 br
|NM| = 3 br

⇒ **Yüzey alanı = ?**
(surface area = ?)

A) 55 B) 60 C) 62 D) 64 E) 68

6.



Dikdörtgenler prizması
(rectangular prism)
|KN| = 3 br
|NM| = 4 br
|CM| = 5 br

⇒ **|BN| = ?**

A) 4 B) 5 C) $5\sqrt{2}$ D) 8 E) 10

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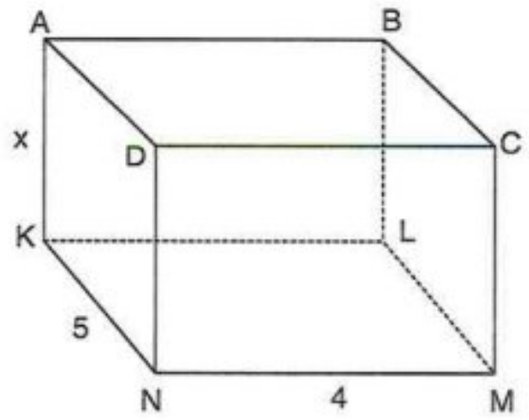
7.

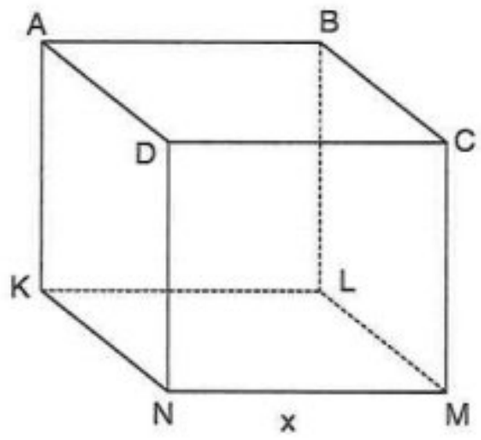


Dikdörtgenler prizması
(rectangular prism)
$|KN| = 5$ br
$|NM| = 4$ br
Hacim(V) $= 60$ br^3
(volume(V) $= 60$ br^3*)*

⇒ **|AK| = ?**

A) 2 B) 3 C) 6 D) 10 E) 12

8.

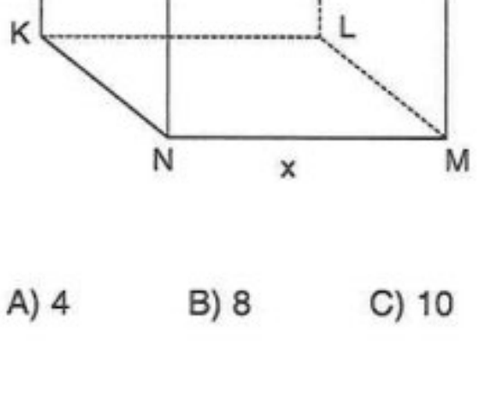


Şekil bir küp, (*a form cube*)
Hacim(V) $= 64$ br^3
(volume(V) $= 64$ br^3*)*

⇒ **|NM| = x = ?**

A) 4 B) 8 C) 10 D) 12 E) 16

9.

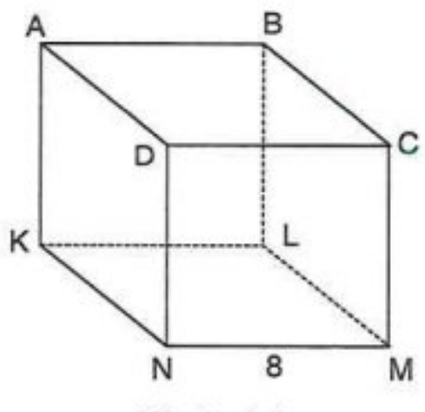


Şekil bir küp, (*a form cube*)
|KN| = |NM| = 3 br

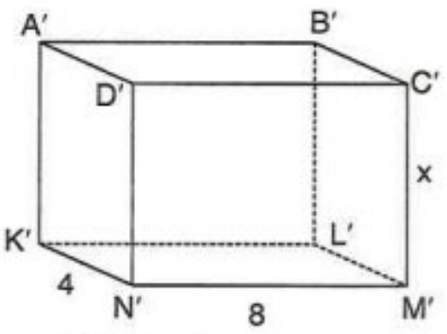
⇒ **|BN| + |NL| = ?**

A) $3\sqrt{2}$ B) $3\sqrt{3}$ C) $3\sqrt{5}$
D) $3\sqrt{3}+3\sqrt{2}$ E) $27+3\sqrt{3}$

10.



Küp (*cube*)



Dikdörtgenler prizması
(*rectangular prism*)

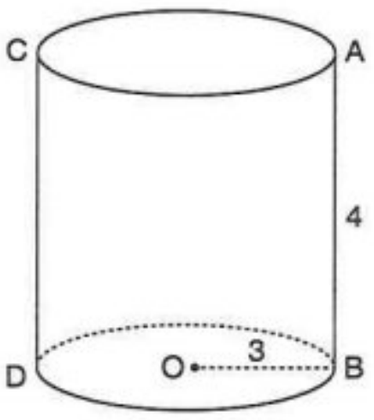
$|NM| = 8$ br $|N'M'| = 8$ br $|K'N'| = 4$ br

İki prizmanın hacimleri birbirine eşit olduğuna göre,
(if the volume of two prisms equals to each other)

⇒ **|C'M'| = x = ?**

A) 4 B) 8 C) 12 D) 16 E) 32

11.



|AB| = 4 br
|OB| = 3 br

⇒ **Hacim(V) = ?**
(volume(V) = ?)

A) 12π B) 27π C) 36π D) 42π E) 48π

12.

|CD| = 5 br
|OD| = 4 br

⇒ **Yüzey alanı = ?**
(*surface area*)

A) 32π B) 48π C) 60π D) 72π E) 80π

1. E	2. C	3. A	4. D	5. C	6. C
7. B	8. A	9. D	10. D	11. C	12. D

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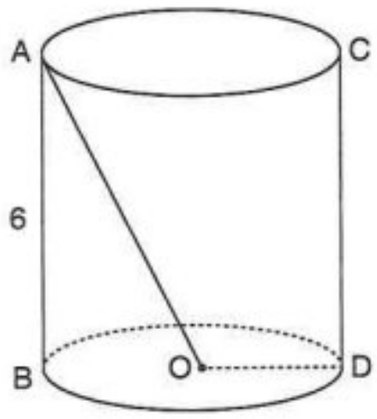
13.



|AB| = 6 br

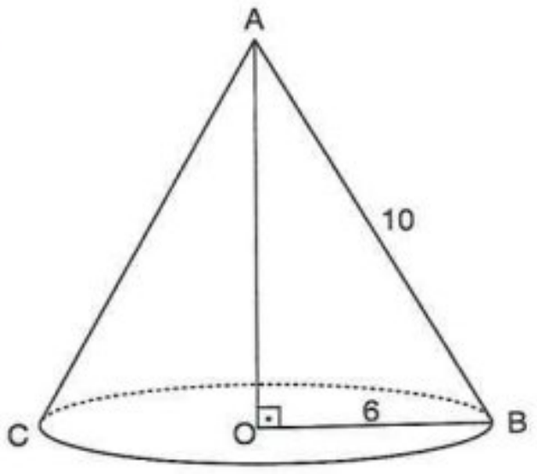
Hacim(V) $= 54\pi$ br^3

(*volume(V)* $= 54\pi$ br^3)

⇒ **|AO| = ?**

A) $3\sqrt{5}$ B) $6\sqrt{2}$ C) 8 D) $6\sqrt{5}$ E) 10

14.



|AB| = 10 br

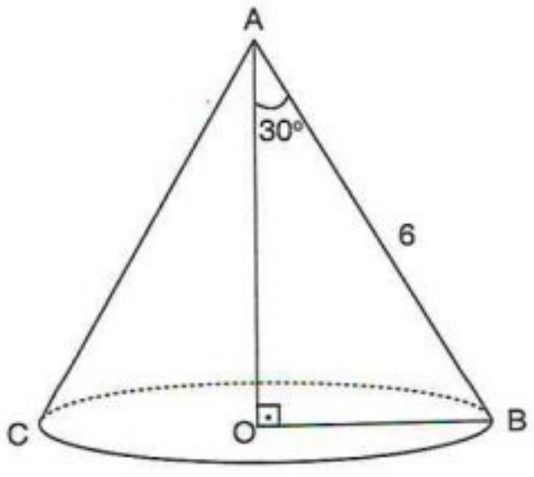
|OB| = 6 br

⇒ **Hacim(V) = ?**

(*volume(V) = ?*)

A) 48π B) 60π C) 72π D) 84π E) 96π

15.



|AB| = 6 br

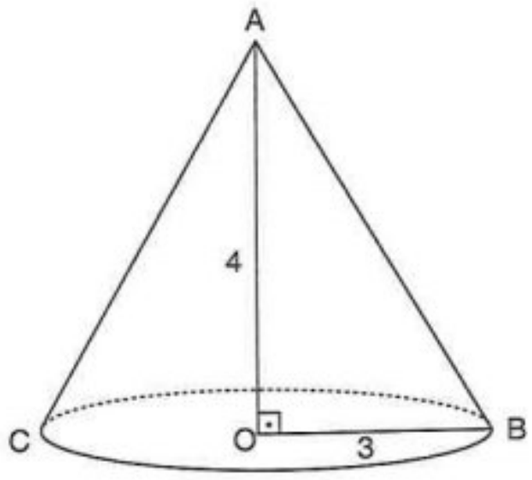
$m(\widehat{OAB}) = 30°$

⇒ **Hacim(V) = ?**

(*volume(V) = ?*)

A) 9π B) $9\sqrt{2}\,\pi$ C) $9\sqrt{3}\,\pi$ D) $9\sqrt{5}\,\pi$ E) 32π

16.



|AO| = 4 br

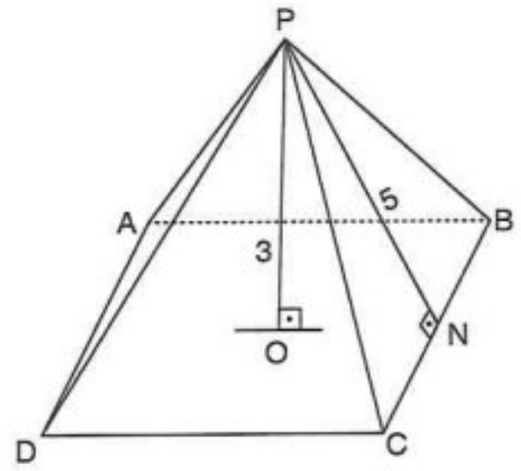
|OB| = 3 br

⇒ **Yüzey alanı = ?**

(*surface area*)

A) 20π B) 24π C) 30π D) 36π E) 40π

17.



Kare piramit
(square pyramid)

|PN| = 5 br

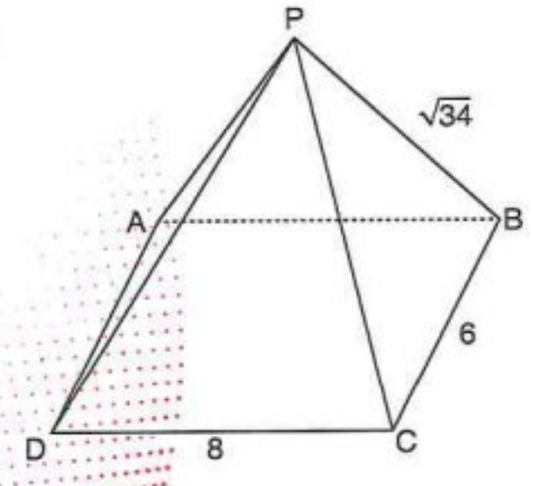
|PO| = 3 br

⇒ **Hacim(V) = ?**

(*volume(V) = ?*)

A) 32 B) 64 C) 72 D) 80 E) 96

18.



Dikdörtgen piramit,
(*rectangular pyramid*)

$|PB| = \sqrt{34}$ br

|BC| = 6 br

|DC| = 8 br

⇒ **Hacim(V) = ?**

(*volume(V) = ?*)

A) 24 B) 36 C) 48 D) 52 E) 64

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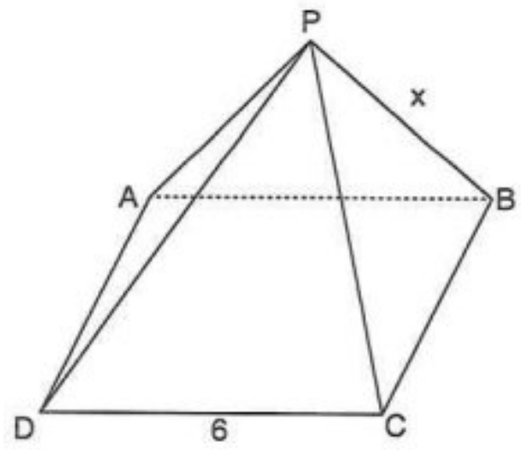
19.

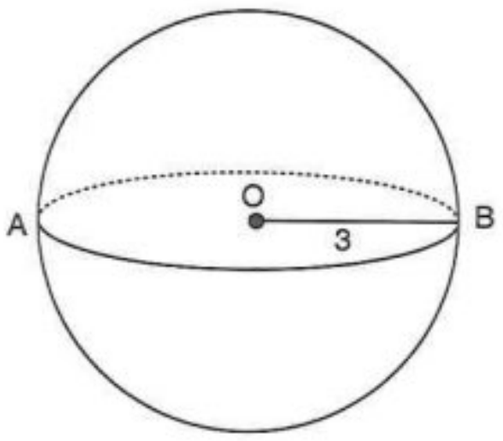


Kare dik piramit,
(*square right pyramid*)
$|DC| = 6$ br
$V = 36\sqrt{3}$ br^3

⇒ **$|PB| = x = ?$**

A) 4 B) $3\sqrt{2}$ C) $3\sqrt{3}$ D) $3\sqrt{5}$ E) 7

20.

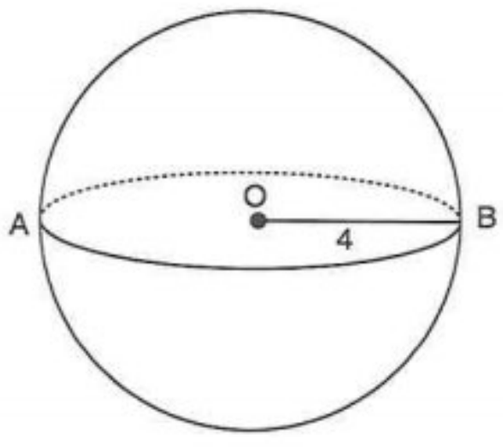


Şekil bir küre,
(*a form sphere*)
$|OB| = 3$ br

⇒ **Hacim(V) = ?**
(*volume(V) = ?*)

A) 18π B) 24π C) 25π D) 27π E) 36π

21.

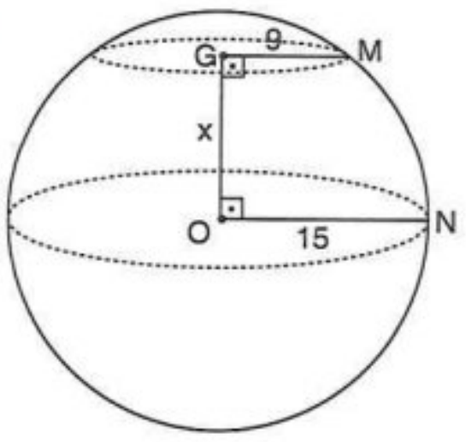


Şekil bir küre,
(*a form sphere*)
$|OB| = 4$ br

⇒ **Yüzey alanı = ?**
(*surface area*)

A) 64π B) 60π C) 52π D) 48π E) 36π

22.

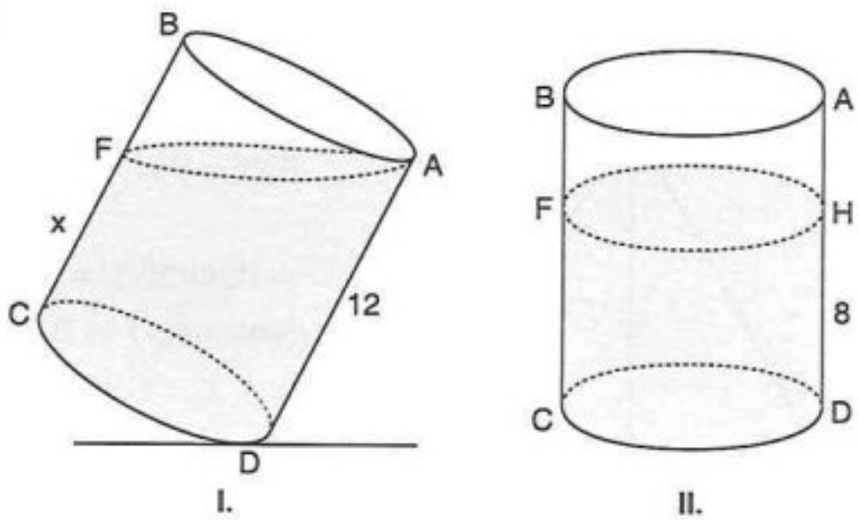


Şekil bir küre,
(*a form sphere*)
$|GM| = 9$ br,
$|ON| = 15$ br

⇒ **$|GO| = x = ?$**

A) 8 B) 9 C) 10 D) 12 E) 13

23.



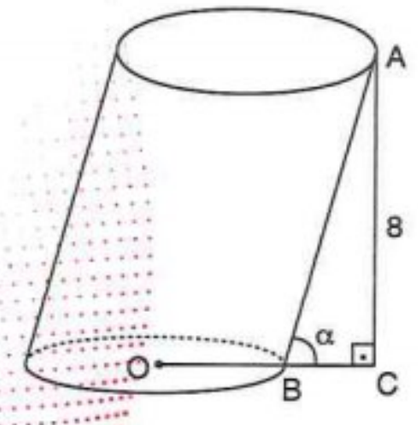
$|AD| = 12$ br
$|HD| = 8$ br

Şekildeki silindir I. durumdan II. duruma getiriliyor.
(*Cylinder turns from I. position to II. position*)

⇒ **$|FC| = x = ?$**

A) 1 B) 2 C) 3 D) 4 E) 6

24.



$|AC| = 8$ br
$r = 5$ br,
$\sin\alpha = \frac{4}{5}$

⇒ **Hacim(V) = ?**
(*volume(V) = ?*)

A) 150π B) 180π C) 200π D) 240π E) 248π

13. A	14. E	15. C	16. B	17. B	18. C
19. D	20. E	21. A	22. D	23. D	24. C

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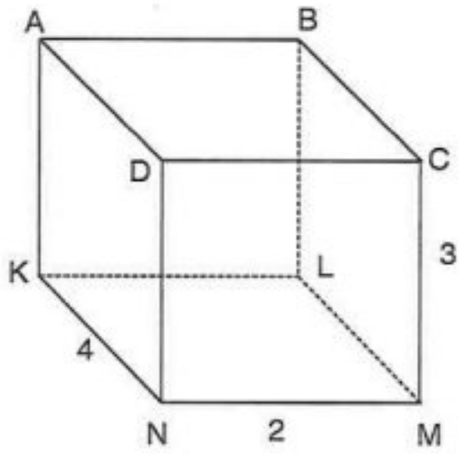
1.



Dikdörtgen prizma
(*rectangle prism*)

|CM| = 3 br

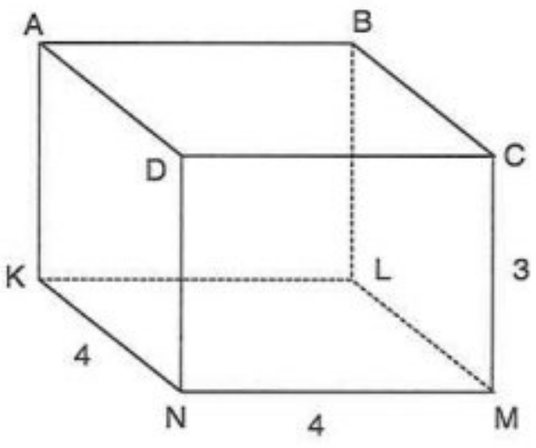
|NM| = 2 br

|KN| = 4 br

⇒ **Yüzey alanı = ?**
(*surface area*)

A) 24 B) 42 C) 52 D) 56 E) 64

2.



Kare dik prizma
(*square right prism*)

|CM| = 3 br

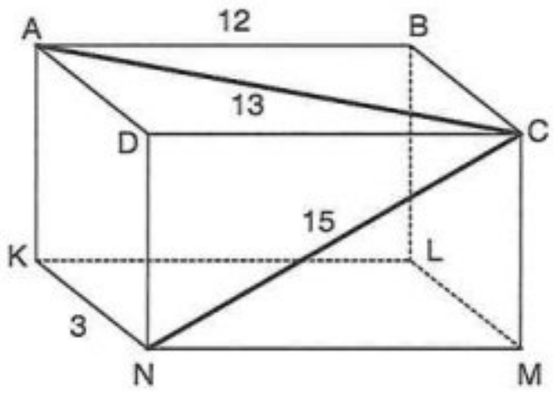
|NM| = 4 br

|KN| = 4 br

⇒ **Yüzey alanı = ?**
(*surface area*)

A) 88 B) 84 C) 80 D) 78 E) 76

3.



Dikdörtgen prizma
(*rectangle prism*)

|AB| = 12 br

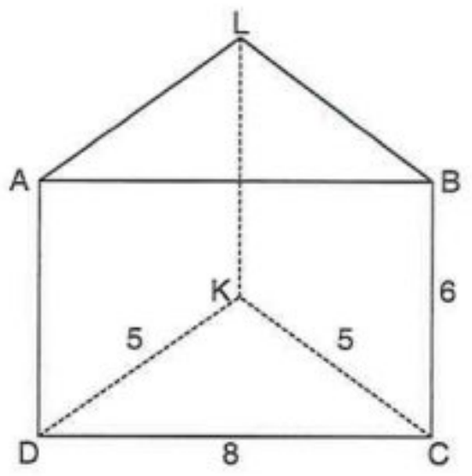
|AC| = 13 br

|CN| = 15 br

⇒ **Hacim(V) = ?**
(*volume(V) = ?*)

A) 180 B) 240 C) 360 D) 480 E) 540

4.



Üçgen prizma
(triangle prism)

|DK| = |KC| = 5 br

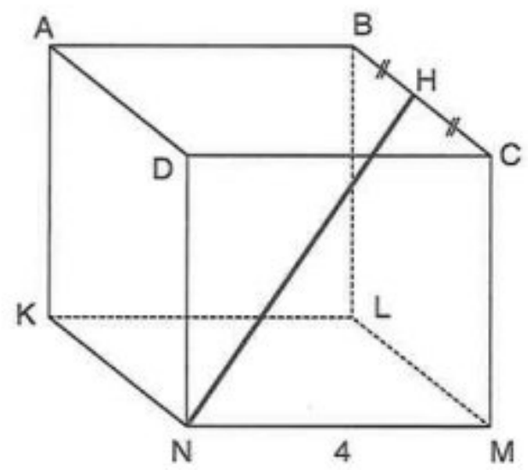
|BC| = 6 br

|DC| = 8 br

⇒ **Hacim(V) = ?**
(*volume(V) = ?*)

A) 24 B) 36 C) 72 D) 80 E) 96

5.



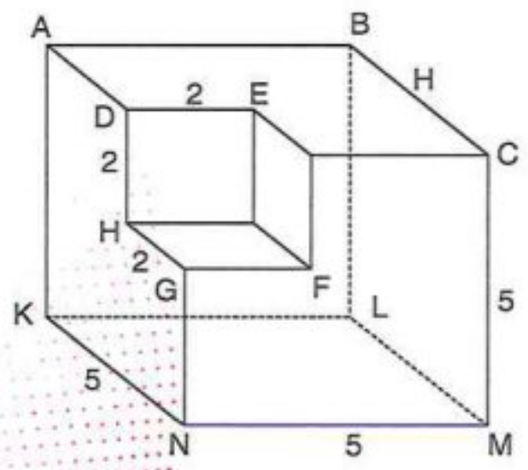
Şekil bir küp
(a form cube)

|MN| = 4 br

⇒ **|NH| = ?**

A) 4 B) 5 C) 6 D) $6\sqrt{2}$ E) $4\sqrt{5}$

6.



Şekildeki küpün bir köşesinden bir parça küp çıkartılıyor.

(*A piece cube form is cut off at a corner of the cube shown as figure*)

Buna göre bu prizmanın hacmi kaç br³ tür?
(According to this *how many unit³ is the volume of this prism?*)

A) 90 B) 100 C) 112 D) 117 E) 121

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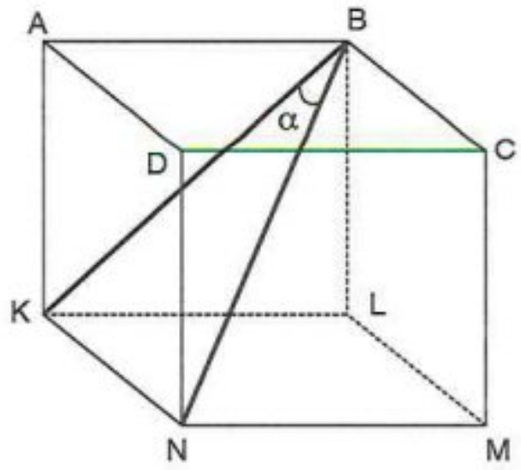
7.



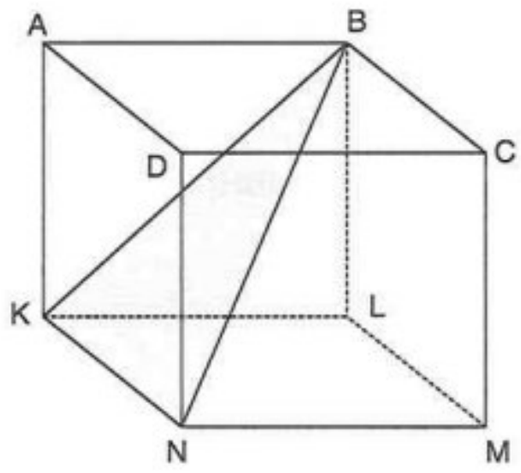
Dikdörtgen prizma
(*rectangle prism*)

$2|KN| = |BN|$

$\Rightarrow m(\widehat{KBN}) = \alpha = ?$

A) 15° B) 30° C) 45° D) 60° E) 75°

8.



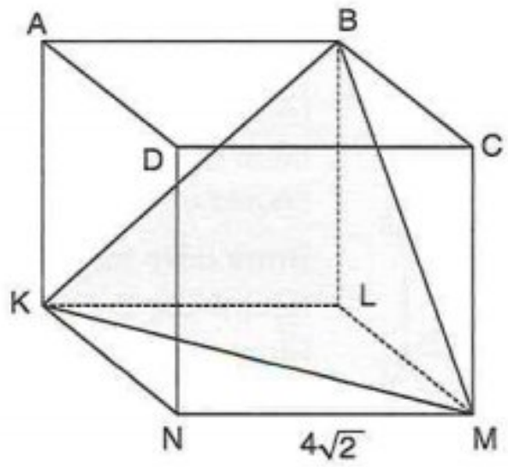
Şekil bir küp,
(*a form cube*)

$|MN| = 4$ br

$\Rightarrow$ **A(BKN) = ?**

A) 4 B) $4\sqrt{2}$ C) $4\sqrt{3}$ D) 8 E) $8\sqrt{2}$

9.



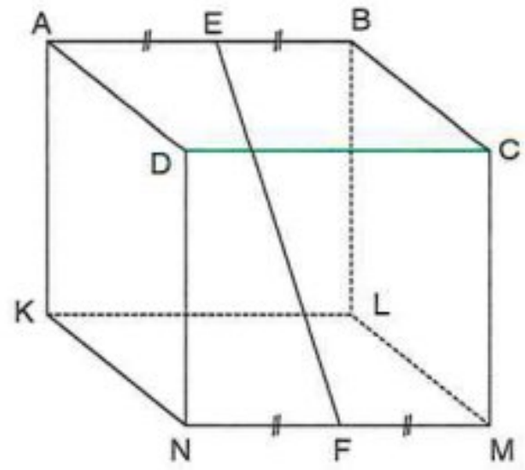
Şekilde bir ayrıtının uzunluğu $4\sqrt{2}$ br olan bir küp veriliyor.

(*A cube wiht an edge of* $4\sqrt{2}$ *units is as in figure*)

$\Rightarrow$ **A(BKM) = ?**

A) $4\sqrt{3}$ B) $16\sqrt{3}$ C) 32 D) 48 E) 52

10.



Şekil bir küp,
(*a form cube*)

$|AE| = |EB|$

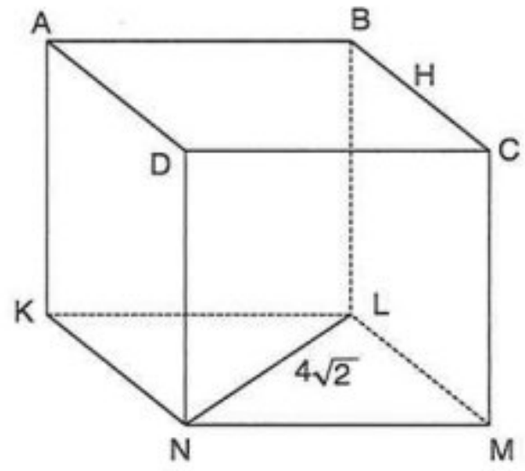
$|NF| = |FM|$

$|AB| = 5$ br

$\Rightarrow$ **|EF| = ?**

A) 6 B) $5\sqrt{2}$ C) 8 D) 10 E) $10\sqrt{2}$

11.



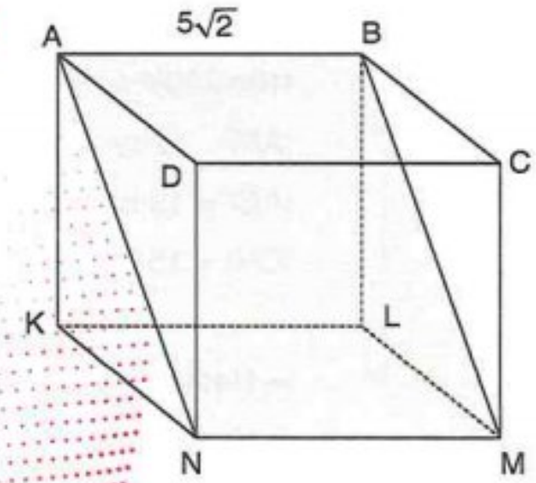
Şekil bir küp,
(*a form cube*)

$|LN| = 4\sqrt{2}$ br

$\Rightarrow$ **Hacim(V) = ?**
(*volume(V) = ?*)

A) 4 B) 8 C) 16 D) 64 E) 72

12.



Şekil bir küp
(*a form cube*)

$|AB| = 5\sqrt{2}$ br

$\Rightarrow$ **A(ABMN) = ?**

A) $25\sqrt{3}$ B) $50\sqrt{2}$ C) $64\sqrt{2}$ D) 72 E) 80

1. C	2. A	3. E	4. C	5. C	6. D
7. B	8. E	9. B	10. B	11. D	12. B

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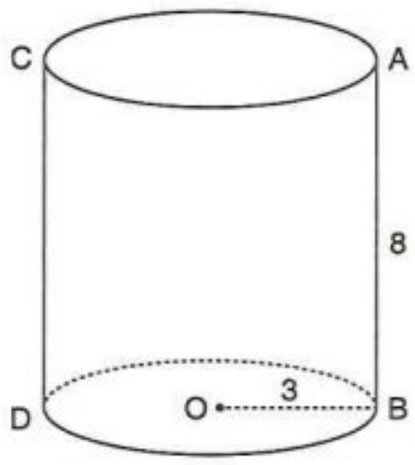
الممسوحة ضوئيا بـ CamScanner

1.



|AB| = 8 br

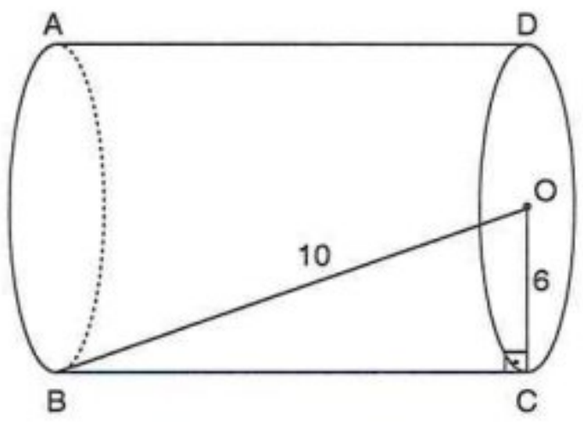
|OB| = 3 br

olduğuna göre, dik silindirin yüzey alanı?

(*surface area of right cylinder*)

A) 24π B) 48π C) 60π D) 66π E) 72π

2.



|OB| = 10 br

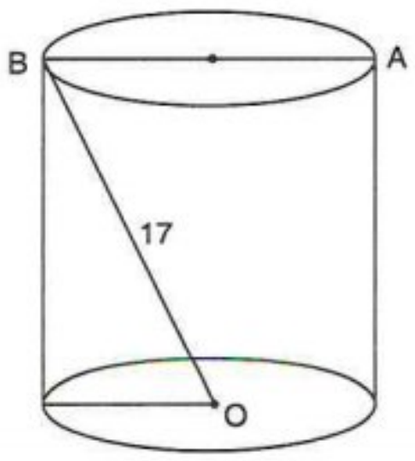
|OC| = 6 br

⇒ **Hacim(V) = ?**

(*volume(V) = ?*)

A) 288π B) 250π C) 240π D) 200π E) 196π

3.



|AB| = 16 br

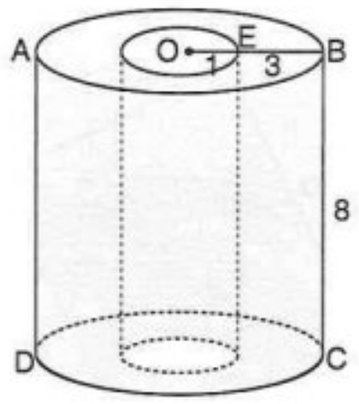
|AO| = 17 br

⇒ **dik silindirin yanal alanı?**

(*lateral area of the right cylinder?*)

A) 120π B) 144π C) 180π D) 200π E) 240π

4.



|OE| = 1 br

|EB| = 3 br

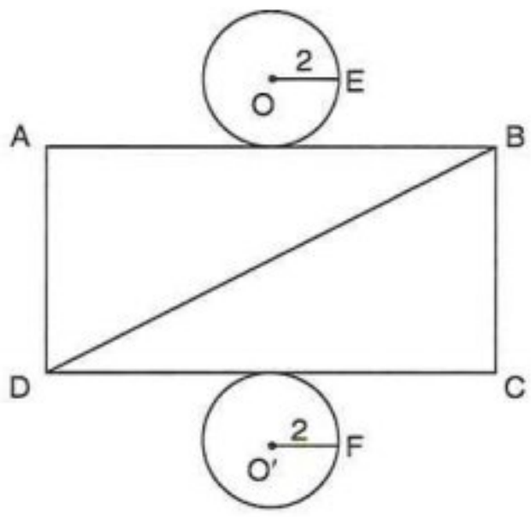
|BC| = 8 br

olduğuna göre içi oyulmuş dik silindirin hacmi?

(*volume of the curved right cylinder?*)

A) 96π B) 100π C) 120π D) 144π E) 150π

5.



|OE| = |O'F| = 2 br

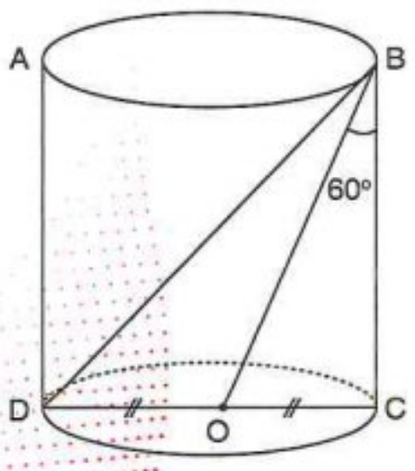
|DB| = 15 br

⇒ **Şeklin birleştirilmesiyle oluşturulan silindirin hacmi kaç br³ tür?** (π = 3)

(*How many unit³ is the volume of the cylinder formed as aggregating the figure? (π = 3)*)

A) 96 B) 108 C) 120 D) 144 E) 150

6.



$m(\widehat{OBC}) = 60°$

|DO| = |OC|

Hacim(V) = 24π br³

(*volume(V) = 24π br³*)

⇒ $A(\overset{\Delta}{BOC}) = ?$

A) $5\sqrt{2}$ B) $2\sqrt{3}$ C) $2\sqrt{2}+\sqrt{3}$ D) 8 E) 12

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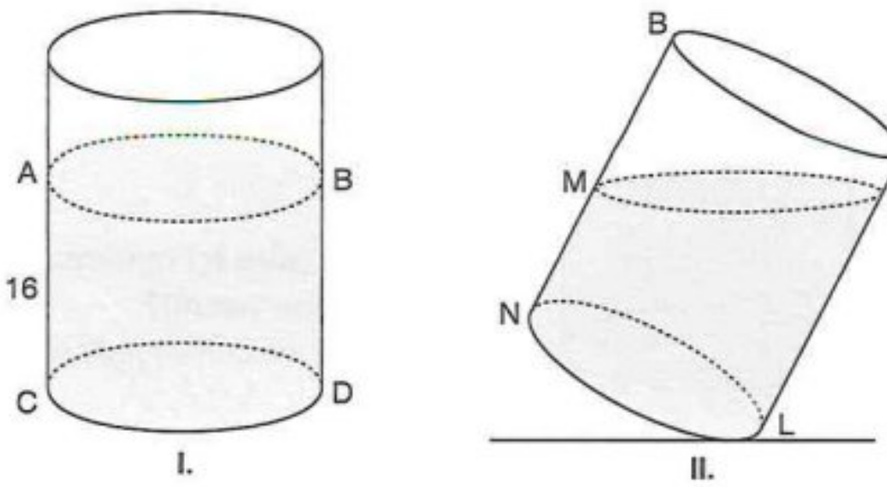
7.



$5|MN| = 3|KL|$

$|AC| = 16$ br

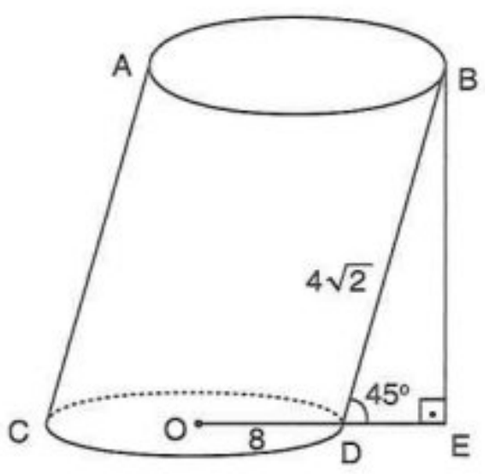
Şekildeki silindir I. durumdan II. duruma getiriliyor.

(*Cylinder turns from I. position to II. position*

⇒ |KL| = ?

A) 18 B) 20 C) 22 D) 24 E) 25

8.



$[BE] \perp [OE]$

$m(\widehat{BDE}) = 45°$

$|DB| = 4\sqrt{2}$ br

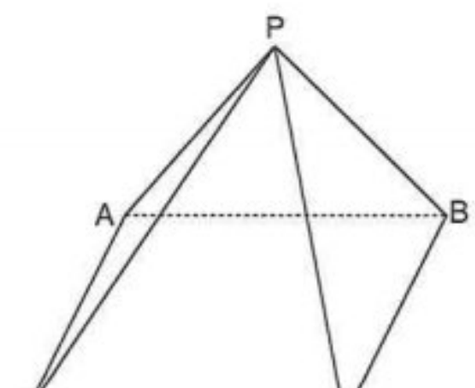
$|OD| = 8$ br

⇒ Hacim(V) = ?

(*volume(V) = ?*)

A) 256π B) 240π C) 160π D) 120π E) 100π

9.



Şekil bir kare dik piramit,
(*a form square right pyramid*)

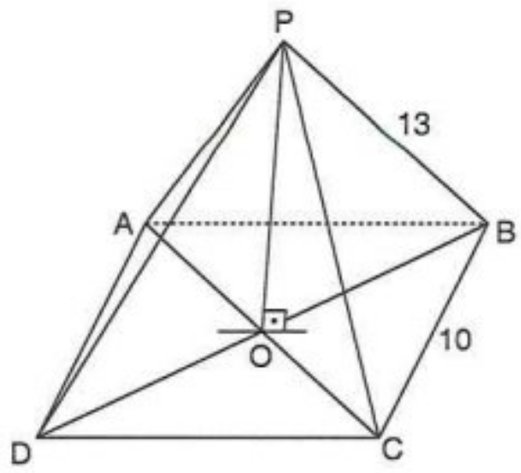
$|PB| = |BC| = 4\sqrt{2}$ br

⇒ kare dik piramidin yüzey alanı?

(surface area of square right pyramid?)

A) $8\sqrt{3}+\sqrt{2}$ B) $24-2\sqrt{3}$ C) $72\sqrt{2}$
D) $32+32\sqrt{3}$ E) 160

10.



Şekil bir dikdörtgen piramit,
(*a form rectangle pyramid*)

$|PB| = 13$ br

$|BC| = 10$ br

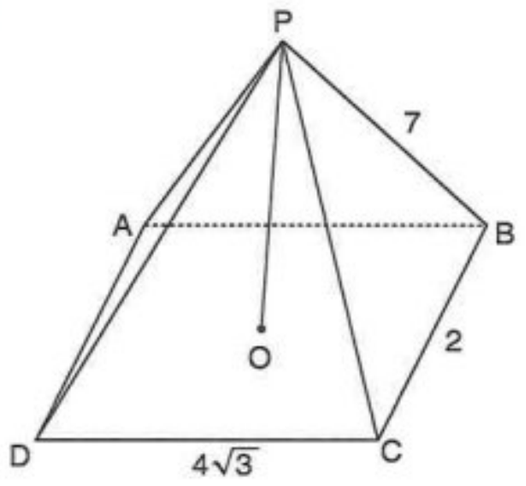
$|DC| = 12$ br

⇒ dikdörtgen piramidin hacmi?

(*volume of the rectangle pyramid?*)

A) $90\sqrt{2}\,\pi$ B) $124\,\pi$ C) $140\sqrt{3}\,\pi$
D) $180\,\pi$ E) $240\sqrt{3}\,\pi$

11.



Şekil bir dikdörtgen piramit,
(*a form rectangle pyramid*)

$|PB| = 7$ br,

$|BC| = 2$ br,

$|DC| = 4\sqrt{3}$ br

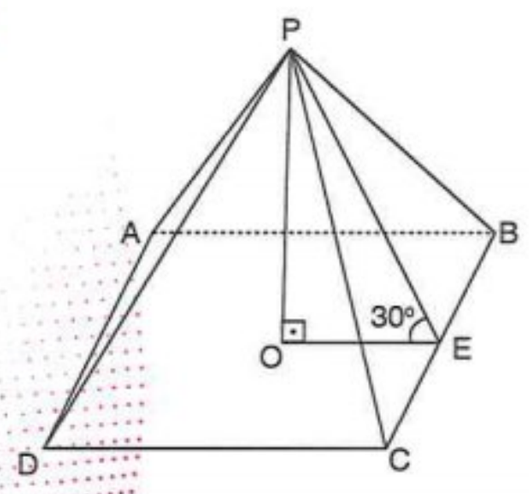
O noktası dikdörtgenin ağırlık merkezi olduğuna göre

(*O, center of gravity ABCD rectangle's*)

⇒ |PO| = ?

A) $3\sqrt{3}$ B) $4\sqrt{2}$ C) 6 D) $8\sqrt{2}$ E) 14

12.



$[PO] \perp [OE]$

$m(\widehat{PEO}) = 30°$

$|BE| = |EC|$

Şekildeki kare dik piramidin hacmi 32 br^3 olduğuna göre

(*volume of the square right pyramid is 32 unit^3 in figure*)

⇒ |AB| = ?

A) 4 B) $3\sqrt{2}$ C) $4\sqrt{3}$ D) $4\sqrt{5}$ E) $8\sqrt{3}$

1. D	2. A	3. E	4. C	5. B	6. B
7. B	8. A	9. D	10. E	11. C	12. C

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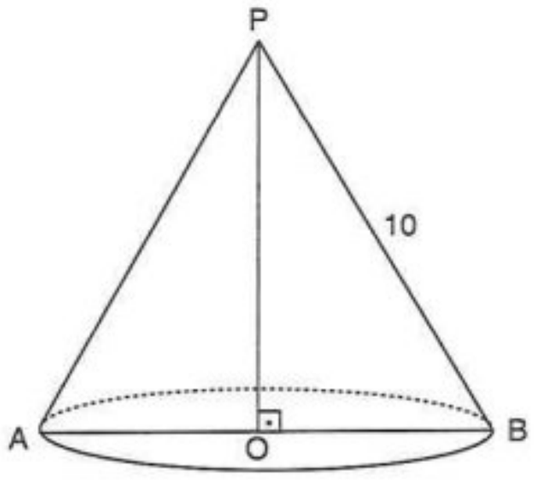
1.

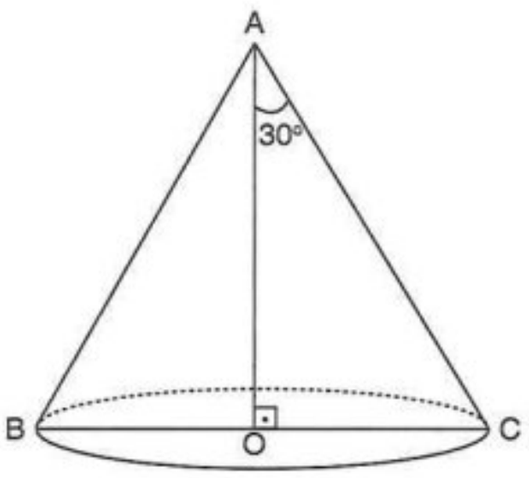


Şekil bir dik koni,
(*a form right cone*)
$[PO] \perp [AB]$
$|AB| = 12$ br
$|PB| = 10$ br

⇒ **Hacim(V) = ?**
(*volume(V) = ?*)

A) 96π B) 108π C) 120π D) 144π E) 156π

2.



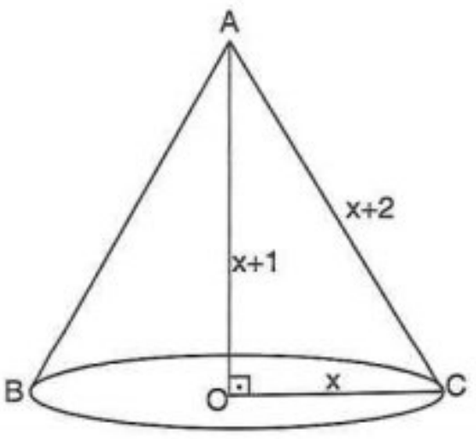
Şekil bir dik koni,
(*a form right cone*)
$[AO] \perp [BC]$
$m(\widehat{OAC}) = 30°$

Hacim(V) $= \frac{64\sqrt{3}}{3}\pi$ br^3
(*volume(V)*

⇒ **A(AOC) = ?**

A) $4\sqrt{2}+\sqrt{3}$ B) $8\sqrt{3}$ C) $9\sqrt{2}+\sqrt{3}$
D) 16 E) 24

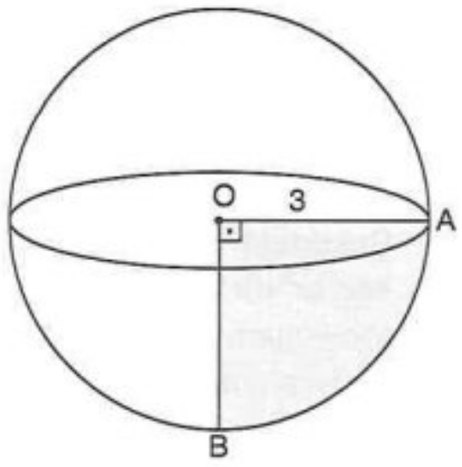
3.



Şekil bir dik koni,
(*a form right cone*)
$[AO] \perp [OC]$
$|AC| = (x + 2)$ br
$|AO| = (x + 1)$ br
$|OC| = x$ br
ise koninin yüzey alanı kaç br^2 dir?
(surface area of the corner?)

A) 12π B) 16π C) 24π D) 32π E) 36π

4.

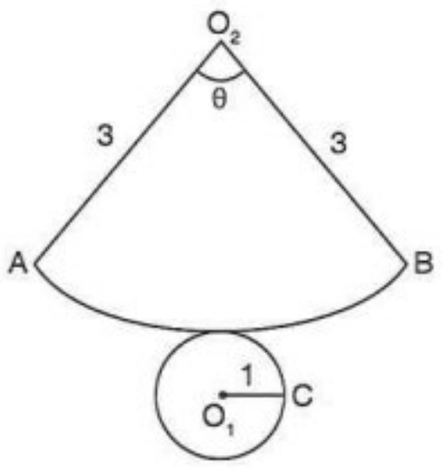


$[OA] \perp [OB]$
$|OA| = 3$ br

ise şekildeki çeyrek kürenin hacmi kaç br^3 tür?
(*volume of the quarter sphere*)

A) 9π B) 12π C) 15π D) 24π E) 32π

5.

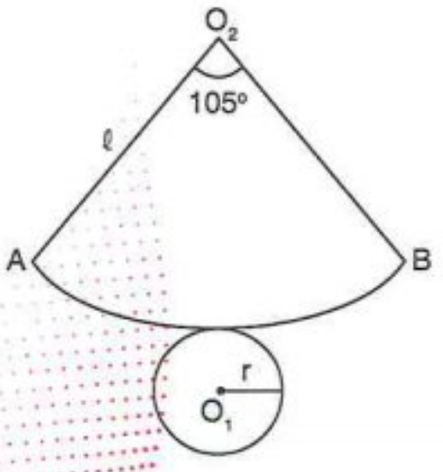


Şekilde açık dik konide,
(*open right cone in figure*)
$|O_2B| = |O_2A| = 3$ br
$|O_1C| = 1$ br

⇒ **$m(\widehat{AO_2B}) = \theta = ?$**

A) 30° B) 60° C) 75° D) 90° E) 120°

6.



Şekildeki açık dik konide
(*open right cone in figure*)
$m(\widehat{AOB}) = 105°$

⇒ $\frac{r}{\ell}$?

A) $\frac{7}{24}$ B) $\frac{1}{3}$ C) $\frac{7}{15}$ D) $\frac{11}{24}$ E) $\frac{11}{15}$

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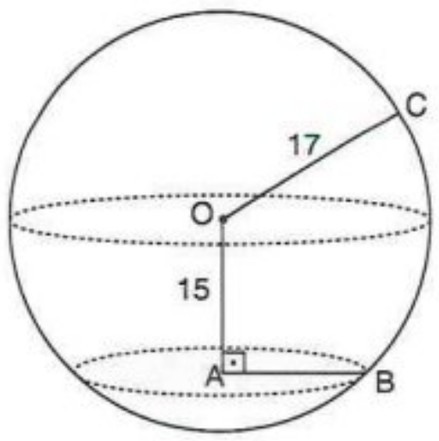
7.

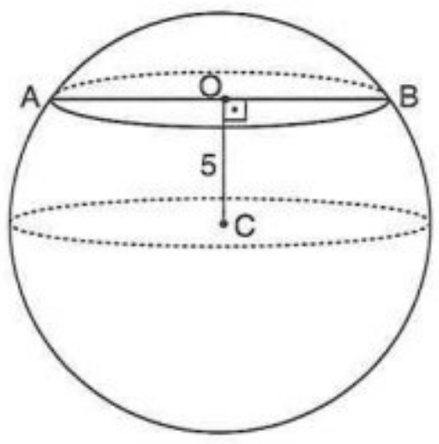


$[OA] \perp [AB]$
$|OC| = 17$ br
$|OA| = 15$ br

Şekildeki taralı kesit alanı kaç br² dir?
(*how many unit² is the shaded surface area in the figure?*)

A) 24π B) 60π C) 64π D) 72π E) 144π

8.



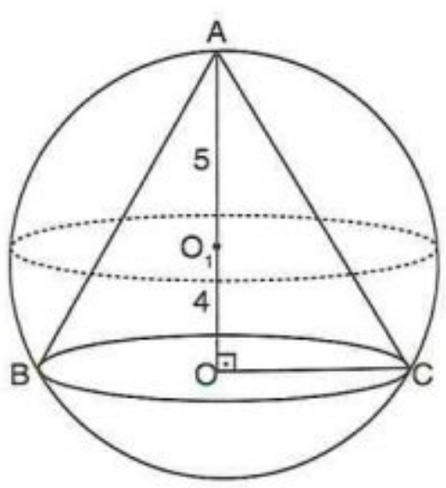
$[OC] \perp [AB]$
$|AB| = 24$ br
$|OC| = 5$ br

$\Rightarrow \dfrac{\textbf{kürenin hacmi}}{\textbf{kürenin alanı}} = ?$

$\Rightarrow \dfrac{\textit{volume of the sphere}}{\textit{area of the sphere}} = ?$

A) $\frac{7}{2}$ B) 4 C) $\frac{13}{3}$ D) $\frac{20}{3}$ E) 24

9.

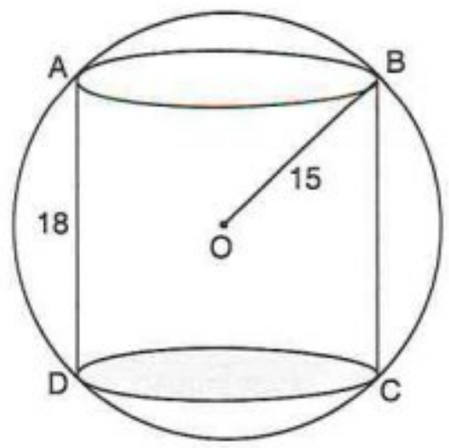


$[AO] \perp [OC]$
$|O_1A| = 5$ br
$|O_1O| = 4$ br

olduğuna göre dik koninin hacmi kaç br³ tür?
(*volume of the right cone?*)

A) 12π B) 18π C) 22π D) 25π E) 27π

10.

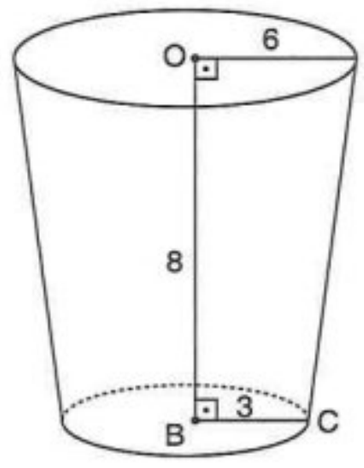


$|OB| = 15$ br
$|AD| = 18$ br

⇒ dik dairesel silindirin taban alanı kaç br² dir?
(*bottom area of right cylinder?*)

A) 72π B) 90π C) 120π D) 144π E) 150π

11.

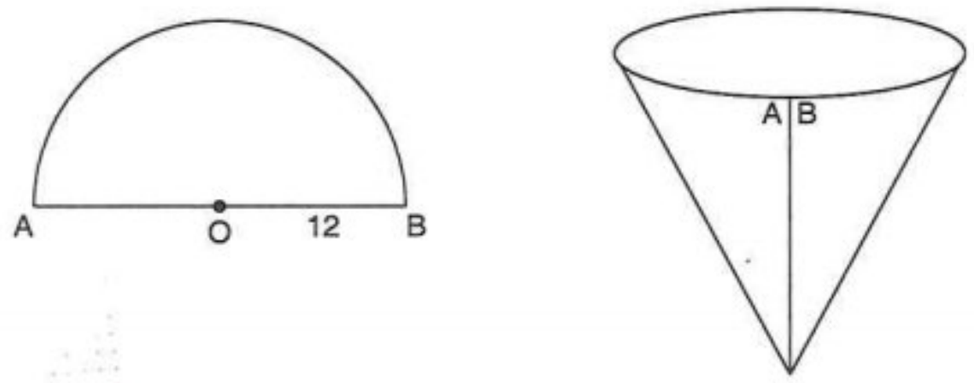


$[OA] \perp [OB]$
$[OB] \perp [BC]$
$|OA| = 6$ br
$|BC| = 3$ br
$|OB| = 8$ br

olduğuna göre şekildeki kesik koninin hacmi kaç br³ tür?
(*volume of truncated cone?*)

A) 112π B) 156π C) 168π D) 192π E) 200π

12.



Yarım daire şeklindeki karton parçası kıvrılarak dik koni haline getiriliyor.
(*a semi-circle in figure curled and formed right cone*)

⇒ koninin taban alanı kaç br² dir?
(*bottom area of the cone?*)

A) 24π B) 36π C) 42π D) 56π E) 64π

1. A	2. B	3. C	4. A	5. E	6. A
7. C	8. C	9. E	10. D	11. C	12. B

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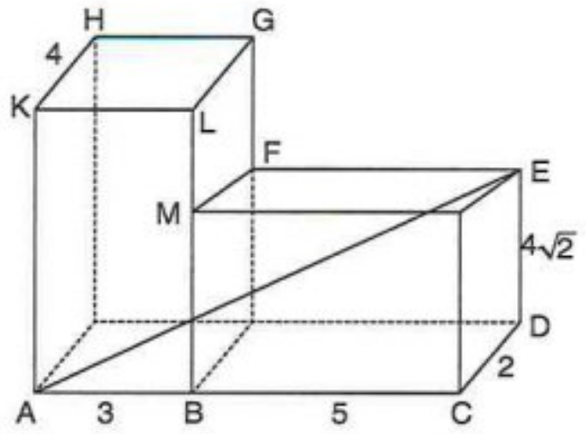
1.



$|AB| = 3$ br

$|ED| = 4\sqrt{2}$ br

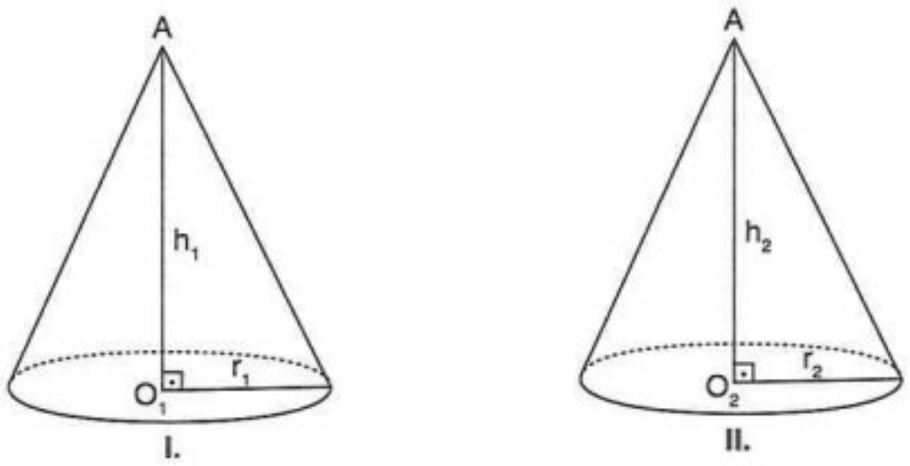
$|CD| = 2$ br

$|BC| = 5$ br

⇒ **|AE| = ?**

A) $4\sqrt{2}$ B) 10 C) 12 D) $5\sqrt{3}$ E) $6\sqrt{2}$

2.



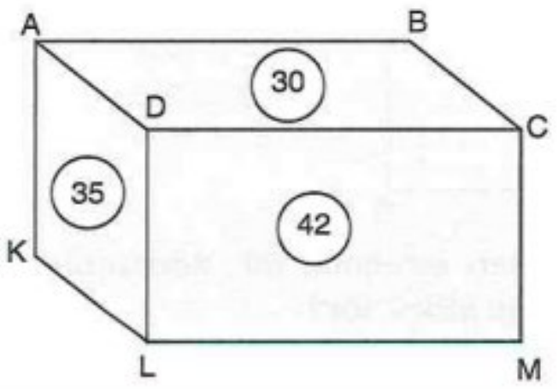
$\frac{r_1}{r_2} = 2x$ $\frac{h_1}{h_2} = \frac{y}{3}$

olduğuna göre 1. şekildeki koninin hacminin 2. şekildeki koninin hacmine oranı kaçtır?

$\frac{\textit{volume of the firs cone}}{\textit{volume of the second cone}} = ?$

A) $\frac{4}{3}x^2y$ B) $\frac{2}{3}xy$ C) $\frac{3}{4}y^2x$ D) $2x^2y^2$ E) $3x^2y$

3.



Şekil bir dikdörtgenler prizması,
(a form rectangle prism)

$A(ABCD) = 30$ br^2

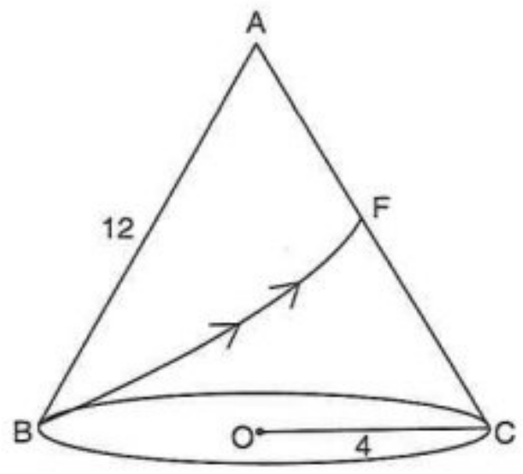
$A(DCML) = 42$ br^2

$A(ADLK) = 35$ br^2

⇒ **Hacim(V) = ?**
(*volume(V) = ?*)

A) 180 B) 210 C) 240 D) 300 E) 360

4.



$|AF| = |FC|$

$F \in [AC]$

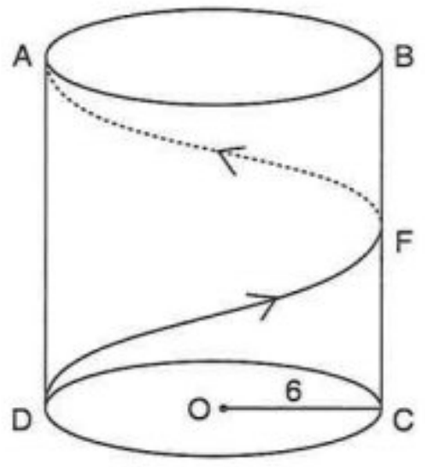
$|OC| = 4$ br

$|AB| = 12$ br

⇒ **min(|BF|) = ?**

A) $3\sqrt{3}$ B) 6 C) $6\sqrt{3}$ D) 12 E) $12\sqrt{3}$

5.



$|AD| = |BC| = 9\pi$ br

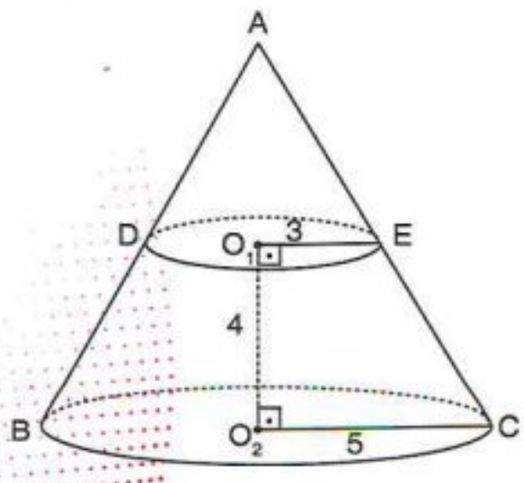
$|OC| = 6$ br

$F \in [BC]$

⇒ **min(|DF| + |FA|) = ?**

A) 10π B) 12π C) 15π D) 24π E) 32π

6.



$[O_1E] \perp [O_1O_2]$

$[O_1O_2] \perp [O_2C]$

$|O_1E| = 3$ br

$|O_1O_2| = 4$ br

$|O_2C| = 5$ br

⇒ **|AB| = ?**

A) $4\sqrt{3}$ B) $4\sqrt{7}$ C) $5\sqrt{3}$ D) 10 E) $5\sqrt{5}$

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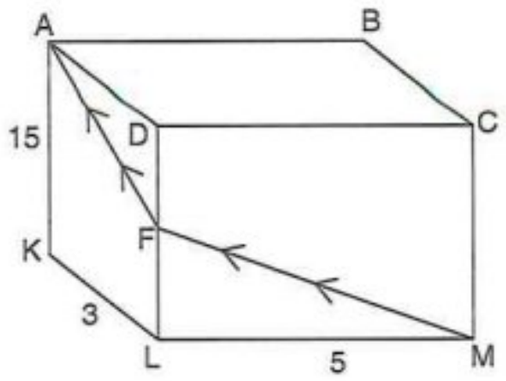
7.



|AK| = 15 br

|KL| = 3 br

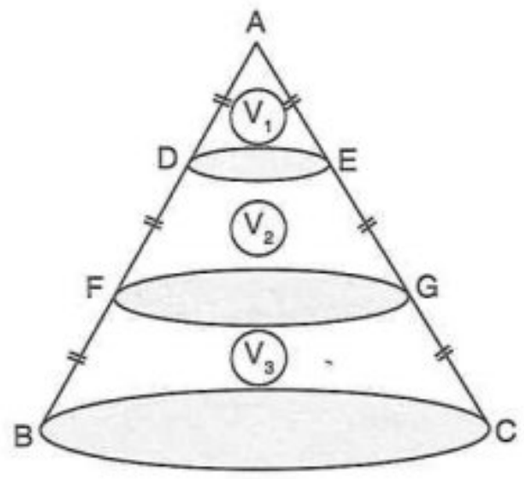
|LM| = 5 br

F ∈ [DL]

⇒ **min(|FM| + |FA|) = ?**

A) 13 B) 17 C) 23 D) 25 E) 36

8.



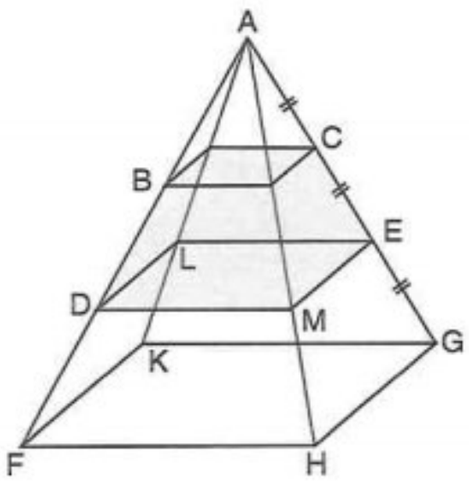
V = hacim
(*V = volume*)

|AE| = |EG| = |GC|

⇒ $\frac{2V_2 + V_3}{11V_1} = ?$

A) 3 B) 4 C) $\frac{9}{2}$ D) $\frac{58}{11}$ E) $\frac{79}{11}$

9.



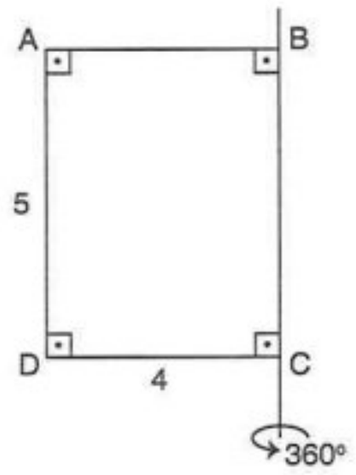
|AC| = |CE| = |EG|

V(LEMD, KGHF) = 38 br³

⇒ **taralı kısmın hacmi = ?**
(*volume of the shaded section*)

A) 7 B) 12 C) 14 D) 28 E) 32

10.



ABCD bir dikdörtgen (*rectangle*)

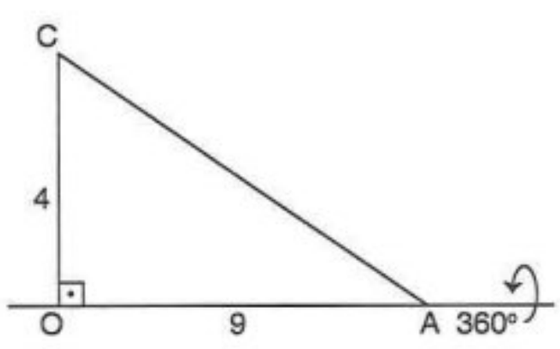
|AC| = 5 br

|CD| = 4 br

⇒ **dikdörtgen BC kenarı boyunca 360° döndürüldüğünde oluşan şeklin hacmi kaç br³ tür?**
(*as a result a 360° revolving of an ABCD rectangle around it's [BC] edge, how many unit³ is the volume of the solid thus formed?*)

A) 48π B) 52π C) 64π D) 72π E) 80π

11.



[OC] ⊥ [OA]

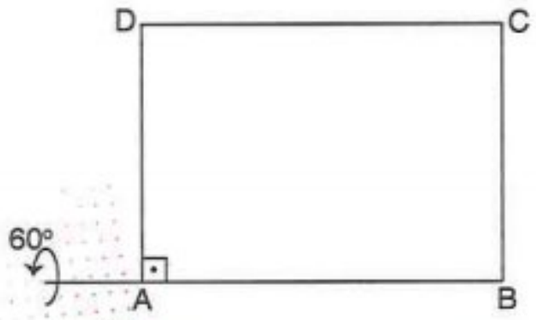
|OC| = 4 br

|OA| = 9 br

⇒ **OCA dik üçgeni OA kenarı boyunca 360° döndürüldüğünde oluşan şeklin hacmi kaç br³ tür?**
(*as a result a 360° revolving of an OCA triangle around it's [OA] edge, how many unit³ is the volume of the solid thus formed?*)

A) 32π B) 48π C) 52π D) 64π E) 72π

12.



ABCD dikdörtgen
(*rectangle*)

|AB| = 8 br

|BC| = 3 br

⇒ **Dikdörtgen AB kenarı etrafında 60° döndürüldüğünde oluşan şeklin hacmi kaç birim³ tür?**
(*as a result a 60° revolving of an ABCD rectangle around it's [BA] edge, how many unit³ is the volume of the solid thus formed?*)

A) 24π B) 20π C) 16π D) 12π E) 8π

1. B	2. A	3. B	4. C	5. C	6. E
7. B	8. A	9. C	10. E	11. B	12. D

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