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.
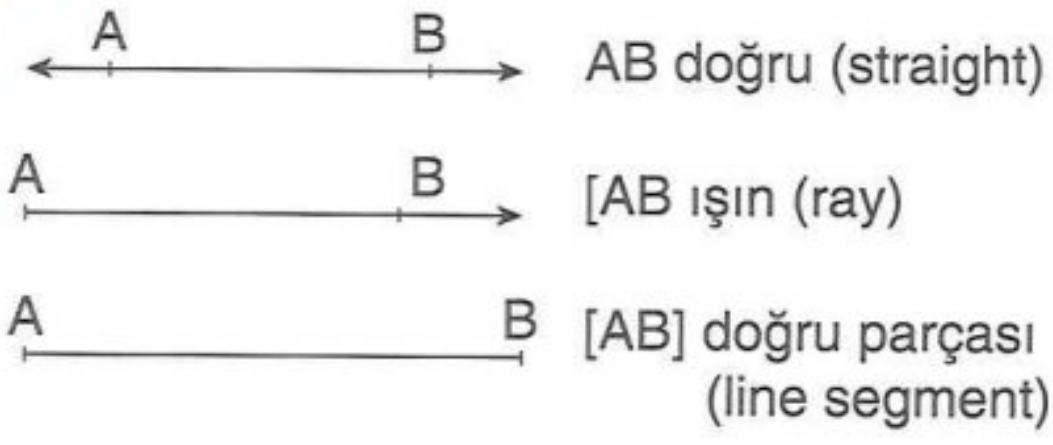
omercaner@yosdershanesi.com
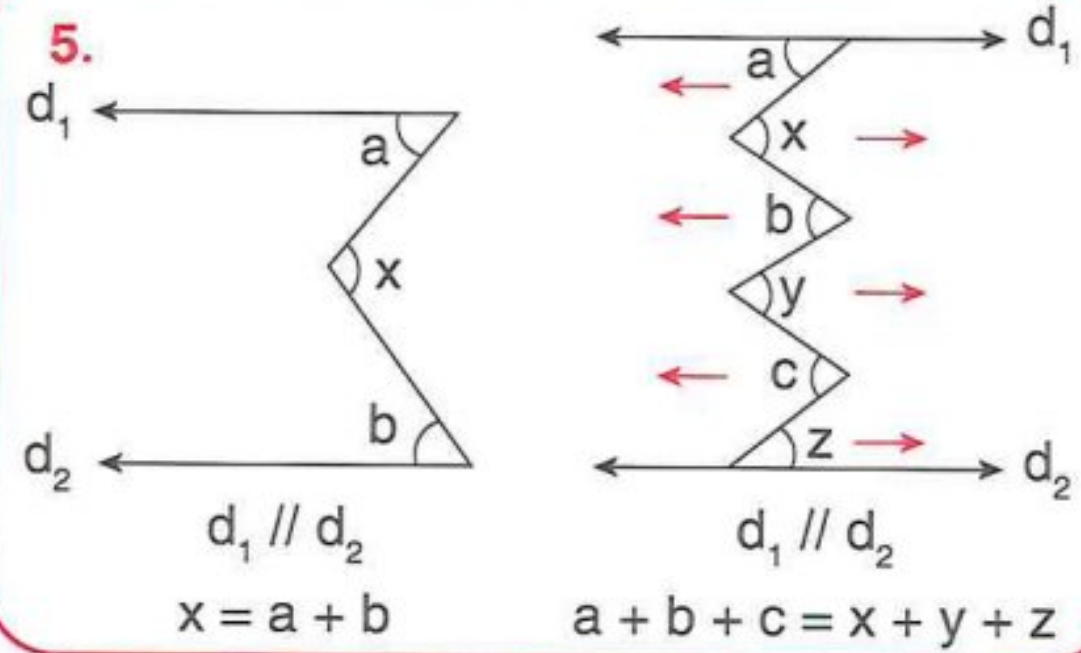
CANER
eğitim kurumları

İÇİNDEKİLER / CONTENTS

AÇILAR
ANGLES

1.

A ——— B   AB doğru (straight)

[AB ışın (ray)

[AB] doğru parçası
(line segment)

2.

Dik Açı
(Right Angle)

$180°$ [AB ışın (ray)
(Straight Angle)

$360°$ Tam Açı
(Prigon)

3.

$d_1 // d_2$

$d_1 // d_2 \quad a + b = 180°$

4.

5.

$d_1 // d_2$

$x = a + b$

$d_1 // d_2$

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

6.

$d_1 // d_2$

$x = a + b$

$d_1 // d_2$

$a + b + c = 360°$

7.

$m(B\widehat{O}D) = 90°$

$d_1 // d_2$

$a + b + c + d = 540°$

8.

$x = a + b + c$

$x + y = a + b + c + d$
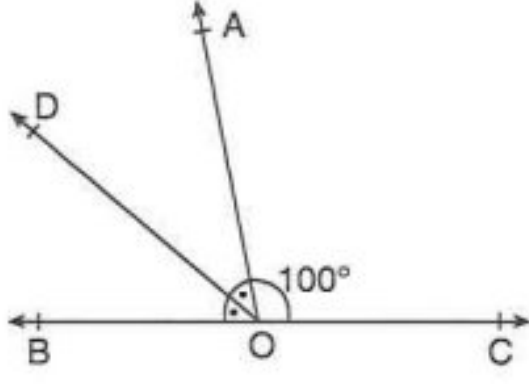
1

AÇILAR
ANGLES

KONU KAVRAMA TESTİ
Thread Grip Test

ZİHİN HARİTASI
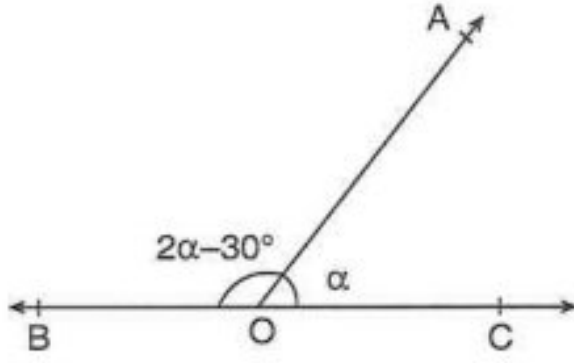*Mind Map*

8 TEST
Tests

144 SORU
Questions

1.

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

$\Rightarrow m(A\widehat{O}D) = ?$
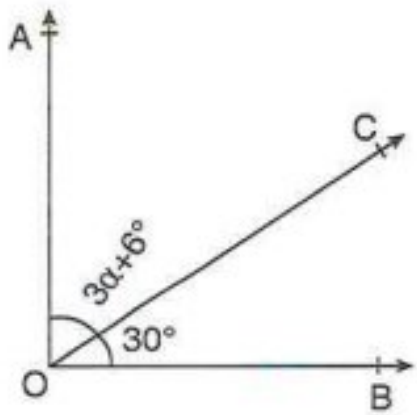
A) 20°   B) 30°   C) 40°   D) 50°   E) 60°

4.

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

$\Rightarrow \alpha = ?$

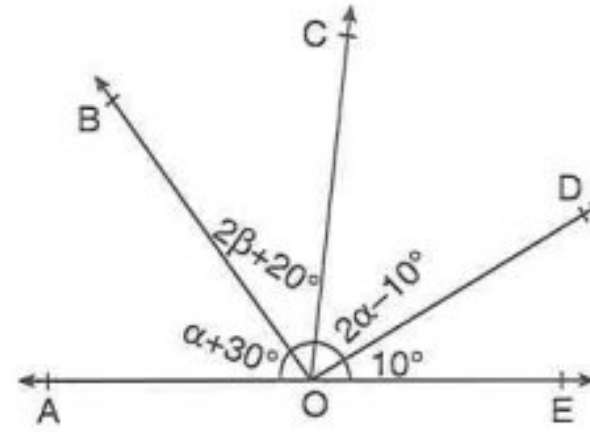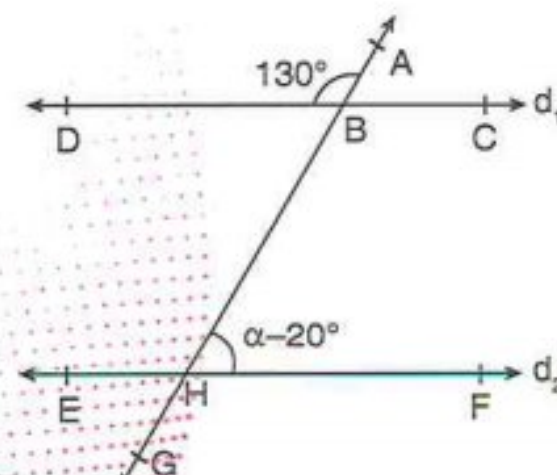A) 30°   B) 40°   C) 50°   D) 60°   E) 70°

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°

5.

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

$\Rightarrow \beta = ?$

A) 5°   B) 8°   C) 13°   D) 15°   E) 20°

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°

6.
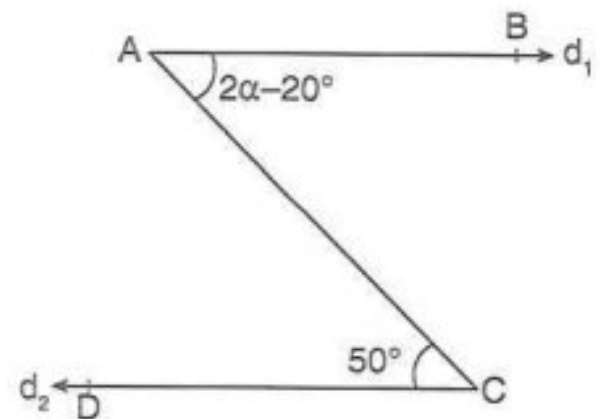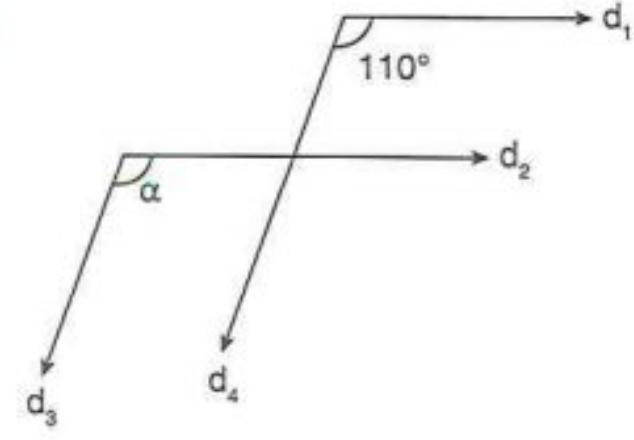

$d_1 \parallel d_2$
$m(A\widehat{B}D) = 130°$
$m(B\widehat{H}F) = \alpha - 20°$

$\Rightarrow \alpha = ?$
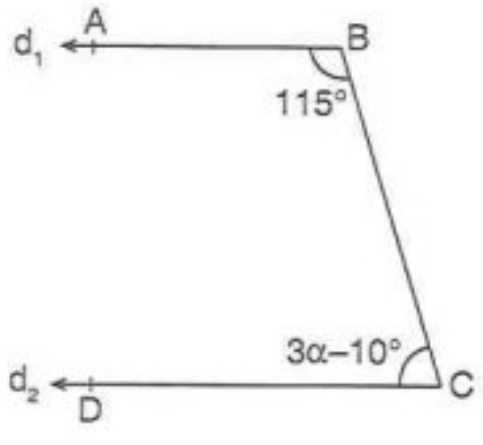
A) 40°   B) 50°   C) 60°   D) 70°   E) 80°

7.

$d_1 /\!/ d_2$
$m(B\widehat{A}C) = 2\alpha - 20°$
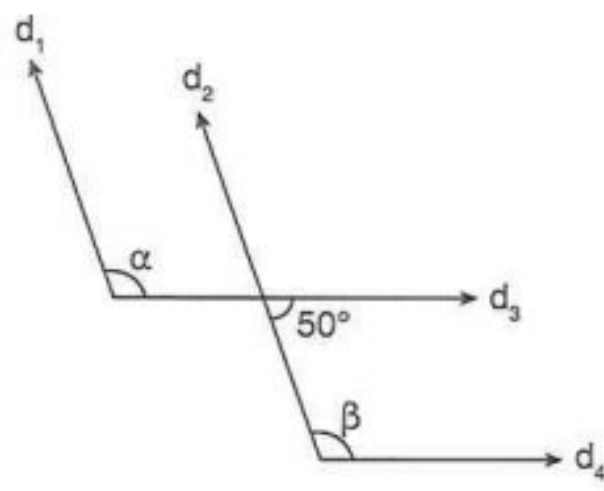$m(A\widehat{C}D) = 50°$

$\Rightarrow \alpha = ?$
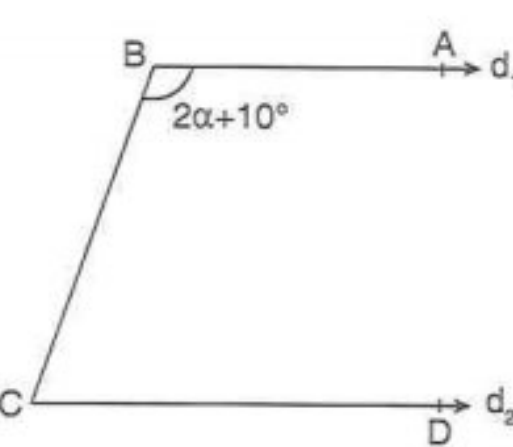
A) 20°   B) 25°   C) 30°   D) 35°   E) 40°

8.

$d_1 /\!/ d_2$

$\Rightarrow \alpha = ?$

A) 45°   B) 40°   C) 35°   D) 30°   E) 25°

9.

$d_1 /\!/ d_2$
$m(A\widehat{B}C) = 2\alpha + 10°$
$m(B\widehat{C}D) = \alpha + 20°$

$\Rightarrow \alpha = ?$

A) 60°   B) 50°   C) 45°   D) 40°   E) 35°

10.

$d_1 /\!/ d_2$
$d_3 /\!/ d_4$
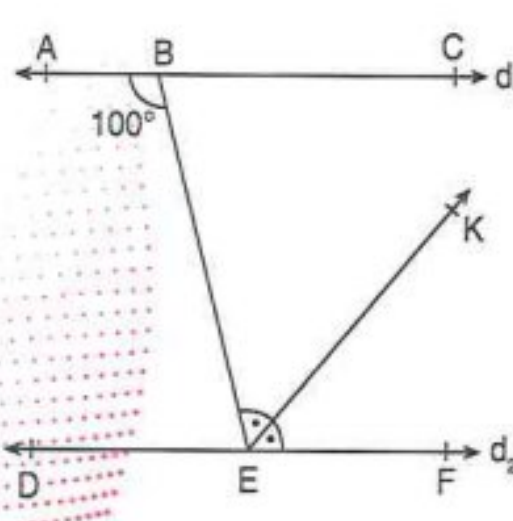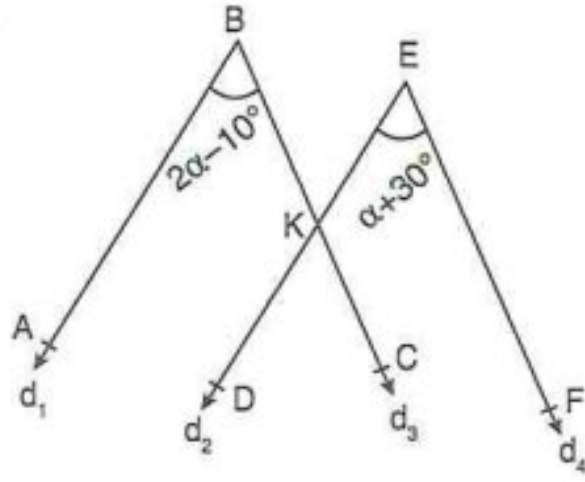
$\Rightarrow \alpha = ?$

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.

$d_1 /\!/ d_2$
$m(A\widehat{B}E) = 100°$
$m(B\widehat{E}K) = m(K\widehat{E}F)$

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

A) 80°   B) 70°   C) 60°   D) 50°   E) 40°

< 8 >

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

13.

$d_1 /\!/ d_2$
$d_3 /\!/ d_4$
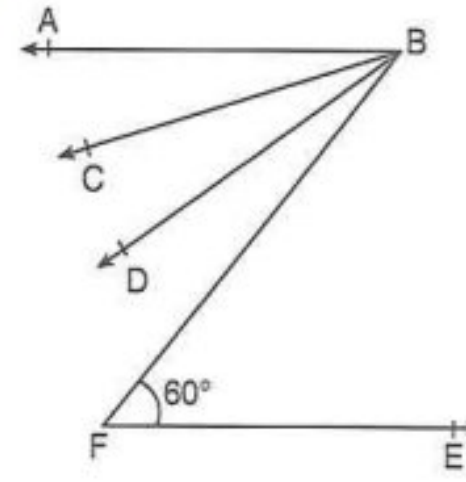$m(A\widehat{B}C) = 2\alpha - 10°$
$m(D\widehat{E}F) = \alpha + 30°$

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

A) 50°   B) 60°   C) 70°   D) 80°   E) 90°

16.

$[BA /\!/ [FE$
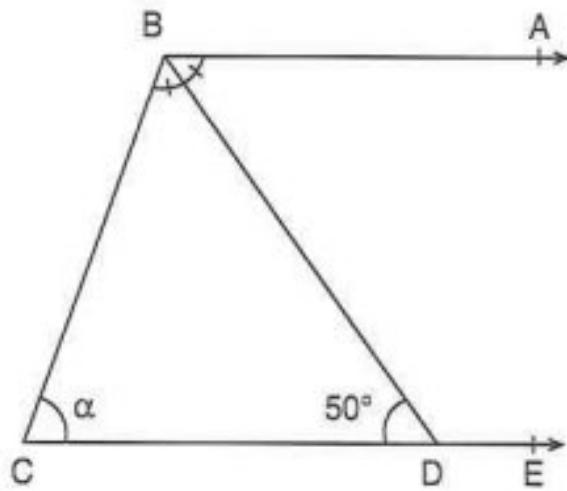$m(A\widehat{B}C) = m(C\widehat{B}D) = m(D\widehat{B}F)$
$m(B\widehat{F}E) = 60°$

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

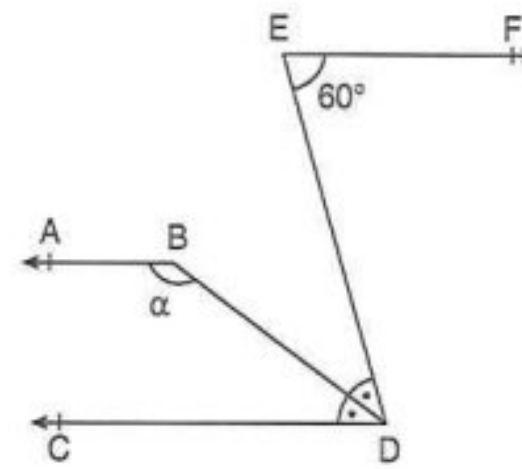A) 15°   B) 20°   C) 25°   D) 30°   E) 35°

14.

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

$\Rightarrow \alpha = ?$

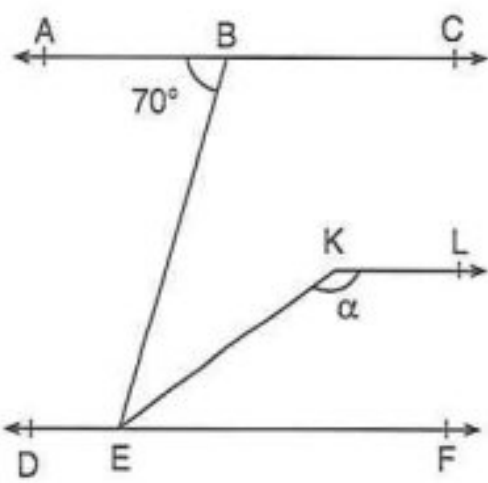A) 80°   B) 75°   C) 70°   D) 65°   E) 60°

17.

$[EF /\!/ [BA /\!/ [DC$
$m(E\widehat{D}B) = m(B\widehat{D}C)$
$m(D\widehat{E}F) = 60°$

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

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

15.

$AC /\!/ [KL /\!/ DF$
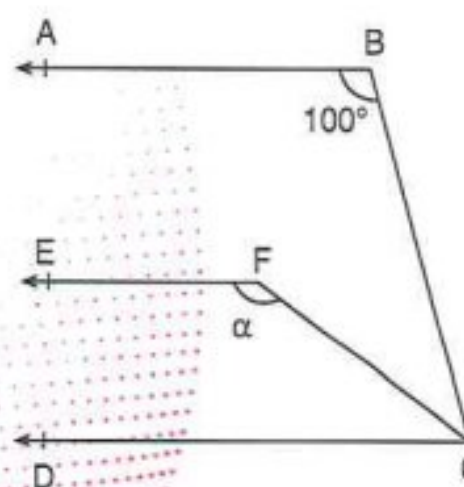$m(B\widehat{E}K) = m(K\widehat{E}F)$
$m(A\widehat{B}E) = 70°$

$\Rightarrow m(E\widehat{K}L) = \alpha = ?$
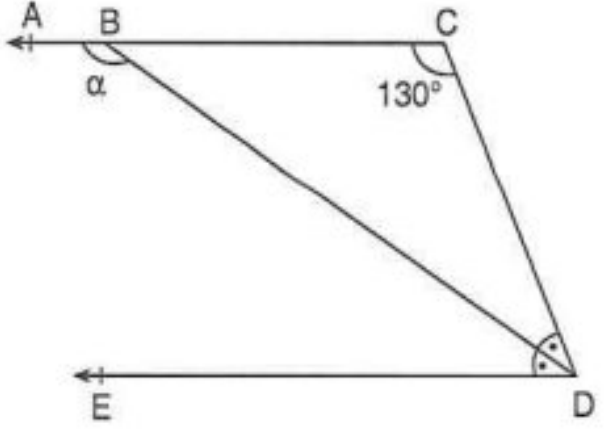
A) 125°   B) 130°   C) 135°   D) 140°   E) 145°

18.

$[BA /\!/ [FE /\!/ [CD$
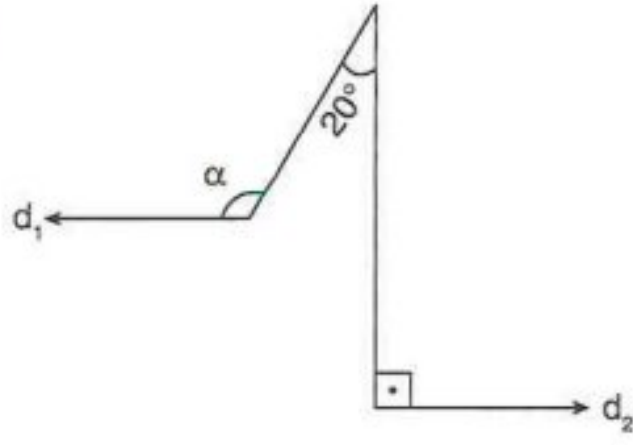$m(A\widehat{B}C) = 100°$
$m(B\widehat{C}F) = 20°$

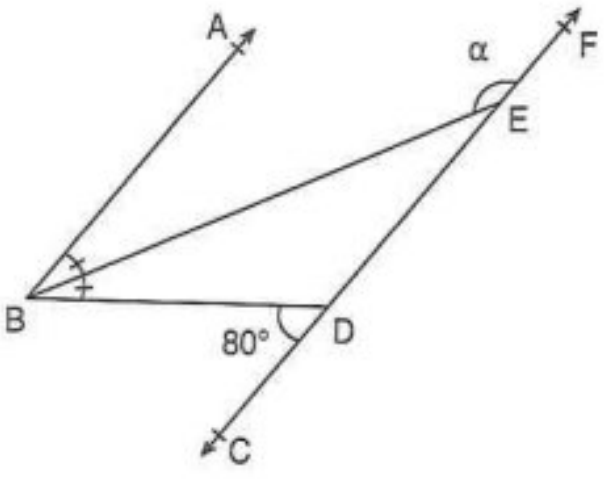$\Rightarrow m(E\widehat{F}C) = \alpha = ?$

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

19.

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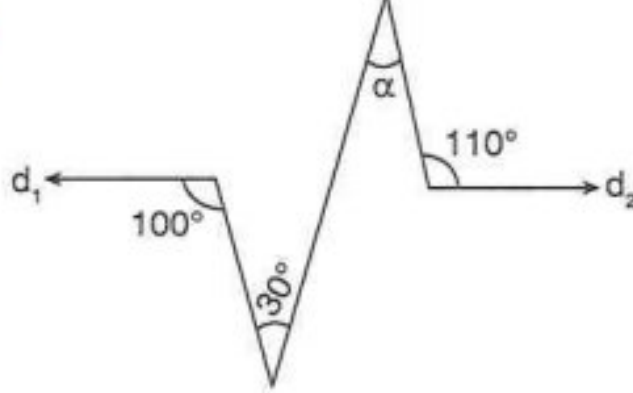
$\Rightarrow m(\widehat{ABD}) = ?$

A) 145° B) 150° C) 155° D) 160° E) 165°
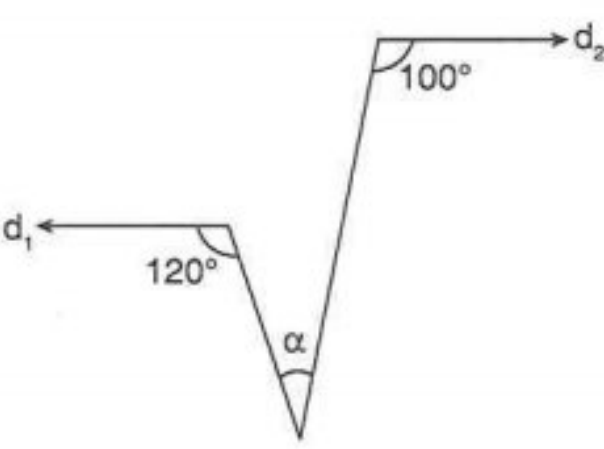
22.

$d_1 \parallel d_2$

$\Rightarrow \alpha = ?$

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

20.

[BA $\parallel$ CF
$m(\widehat{BDC}) = 80°$
$m(\widehat{ABE}) = m(\widehat{EBD})$
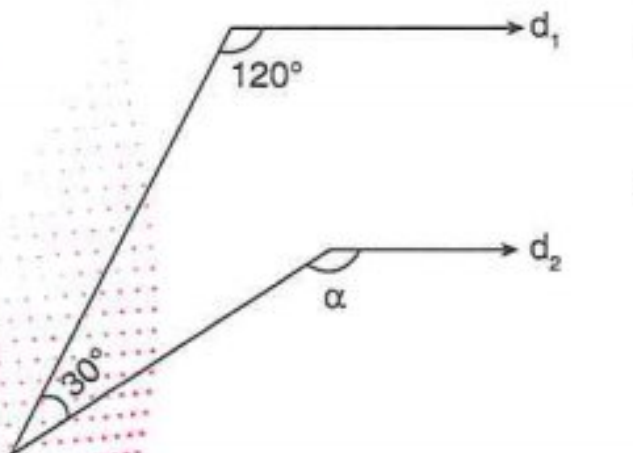
$\Rightarrow m(\widehat{BEF}) = \alpha = ?$

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

23.

$d_1 \parallel d_2$

$\Rightarrow \alpha = ?$

A) 30° B) 40° C) 50° D) 60° E) 70°
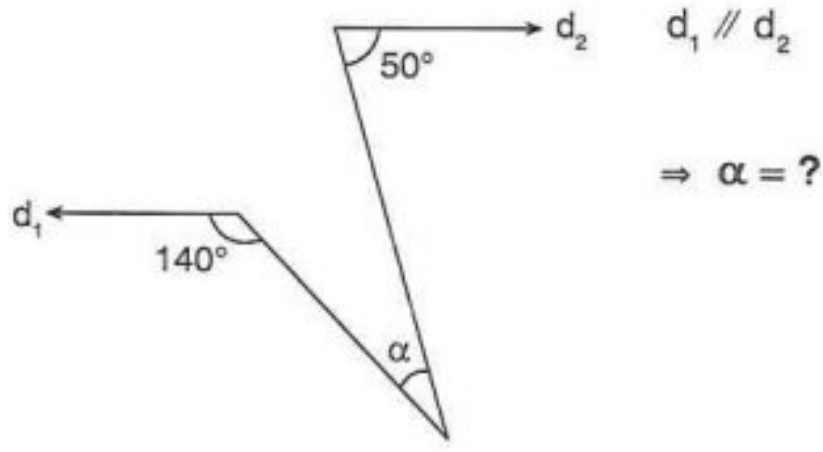
21.

$d_1 \parallel d_2$

$\Rightarrow \alpha = ?$

A) 10° B) 20° C) 30° D) 40° E) 50°

24.

$d_1 \parallel d_2$

$\Rightarrow \alpha = ?$

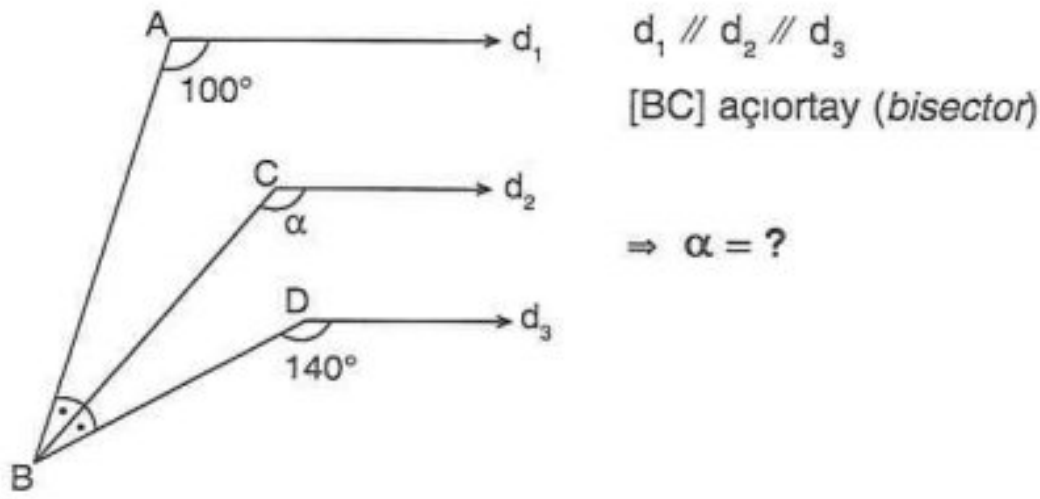A) 140° B) 145° C) 150° D) 155° E) 160°

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

25.

$d_1 /\!/ d_2$

$\Rightarrow \alpha = ?$

50°
140°
α

A) 5°   B) 10°   C) 15°   D) 20°   E) 25°

28.

$d_1 /\!/ d_2$

$\Rightarrow \alpha = ?$

α+10°
150°
α+20°

A) 100°   B) 75°   C) 65°   D) 60°   E) 55°

26.

$d_1 /\!/ d_2 /\!/ d_3$

[BC] açıortay (*bisector*)

$\Rightarrow \alpha = ?$

A
100°
C
α
D
140°
B

A) 80°   B) 90°   C) 100°   D) 110°   E) 120°

29.

$d_1 /\!/ d_2$

$\Rightarrow \alpha = ?$

150°
α
70°
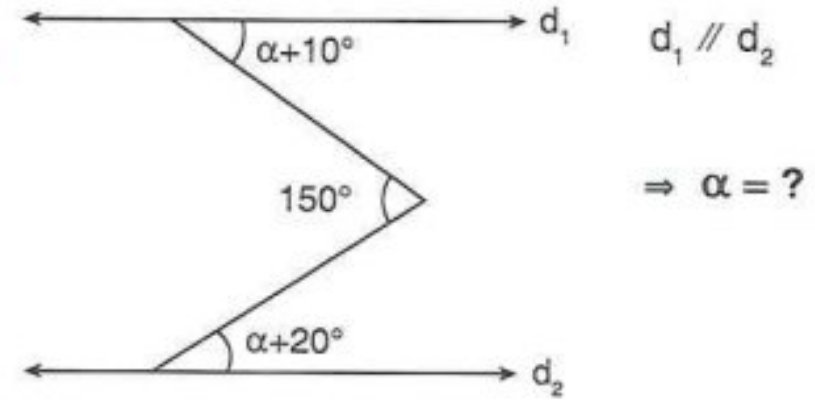
A) 120°   B) 110°   C) 100°   D) 90°   E) 80°

27.

$d_1 /\!/ d_2$

$\Rightarrow \alpha = ?$

A
α
B
70°
C   D
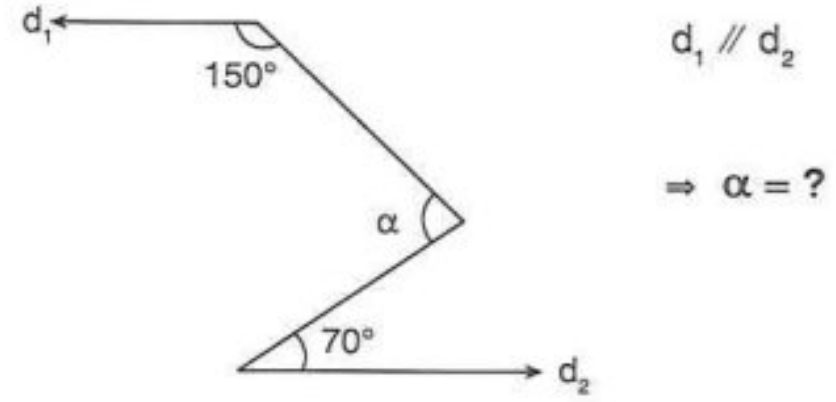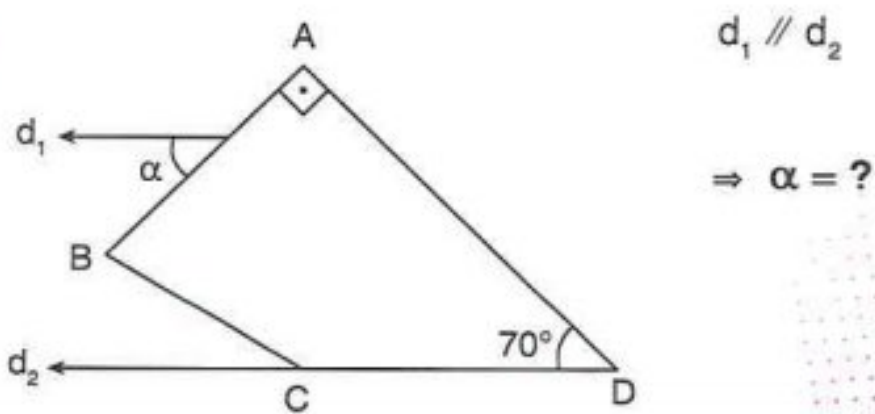
A) 20°   B) 30°   C) 40°   D) 50°   E) 60°

30.

$d_1 /\!/ d_2$

$\Rightarrow \alpha = ?$

40°
70°
80°
α
30°
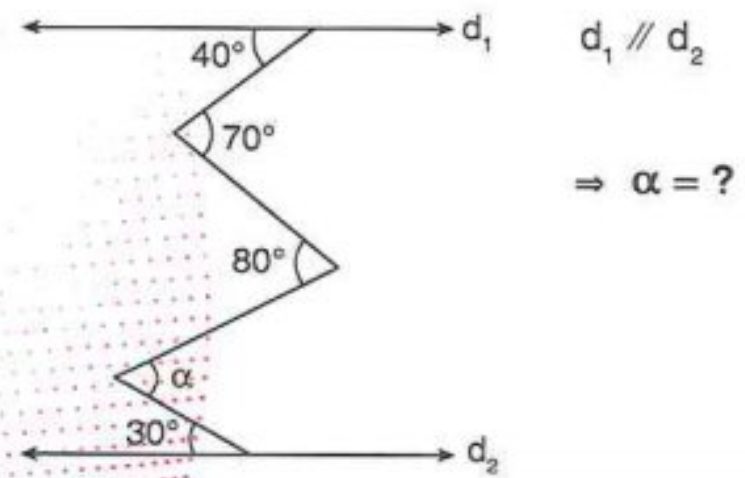
A) 120°   B) 100°   C) 90°   D) 80°   E) 70°

31.

$d_1 \mathbin{/\mkern-5mu/} d_2$

$\Rightarrow \alpha = ?$

A) 110°   B) 100°   C) 90°   D) 85°   E) 75°

34.

$d_1 \mathbin{/\mkern-5mu/} d_2$

$m(A\widehat{B}C) = 70°$

$m(C\widehat{D}E) = 150°$

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

A) 70°   B) 80°   C) 90°   D) 100°   E) 110°

32.
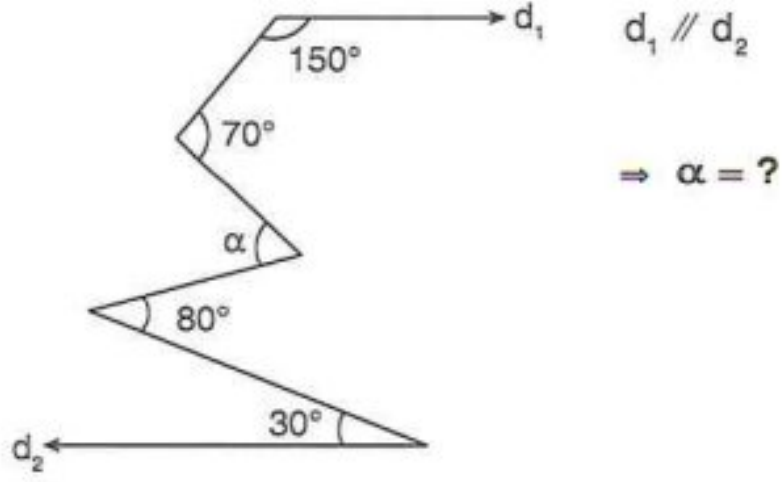
$d_1 \mathbin{/\mkern-5mu/} d_2$

$\Rightarrow \alpha = ?$
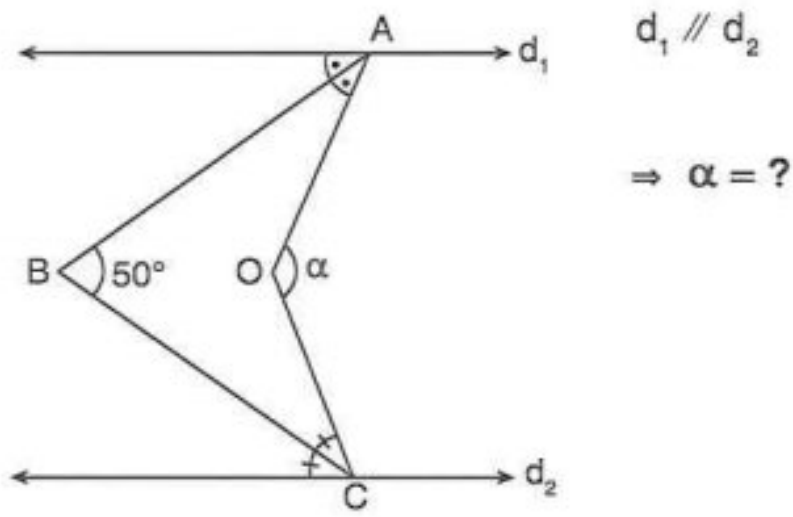
A) 130°   B) 120°   C) 110°   D) 100°   E) 90°

35.

$d_1 \mathbin{/\mkern-5mu/} d_2 \mathbin{/\mkern-5mu/} d_3$

[BF] açıortay (*bisector*)

$m(B\widehat{C}D) = 140°$

$m(C\widehat{D}E) = 100°$

$\Rightarrow \alpha = ?$

A) 80°   B) 90°   C) 110°   D) 120°   E) 150°

33.

$d_1 \mathbin{/\mkern-5mu/} d_2$

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

$\Rightarrow \alpha = ?$
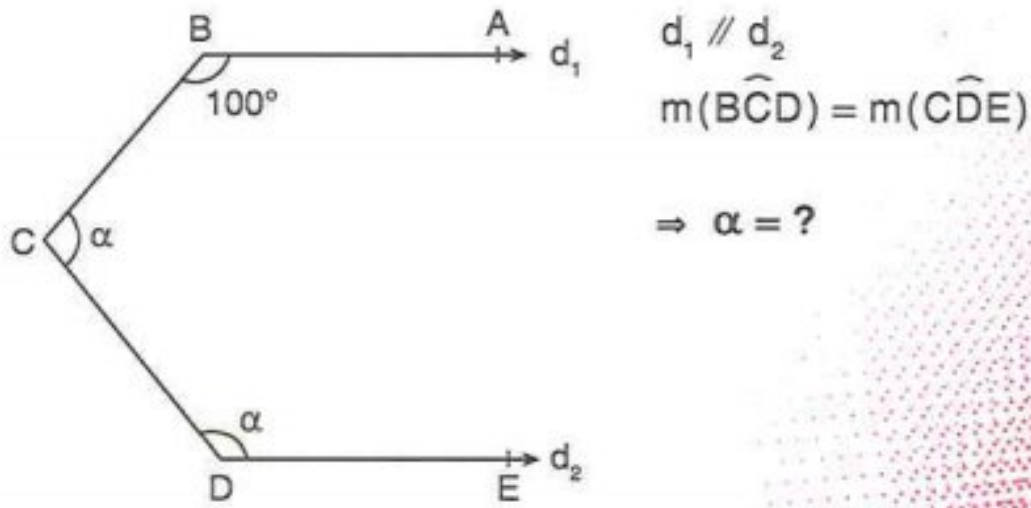
A) 100°   B) 110°   C) 120°   D) 130°   E) 140°

36.

$d_1 \mathbin{/\mkern-5mu/} d_2$

$\Rightarrow \alpha = ?$

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 |
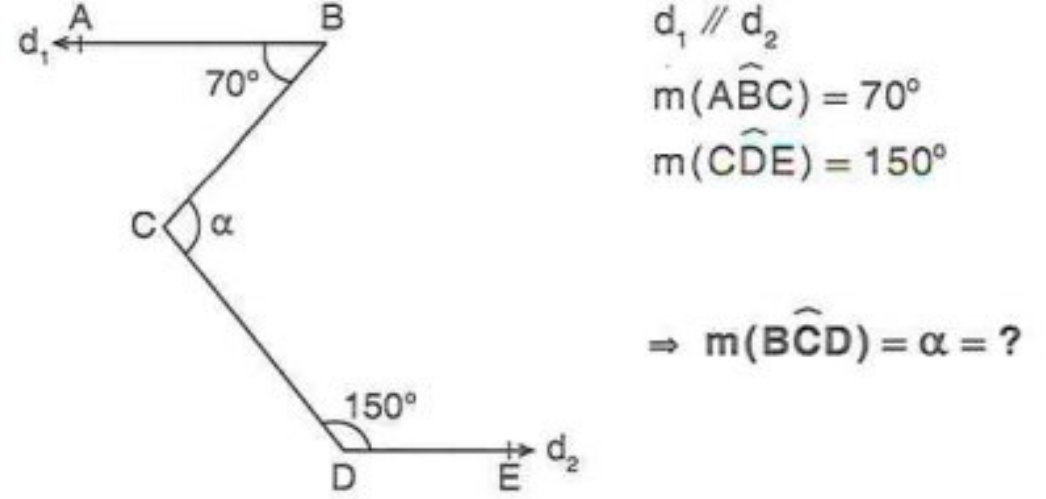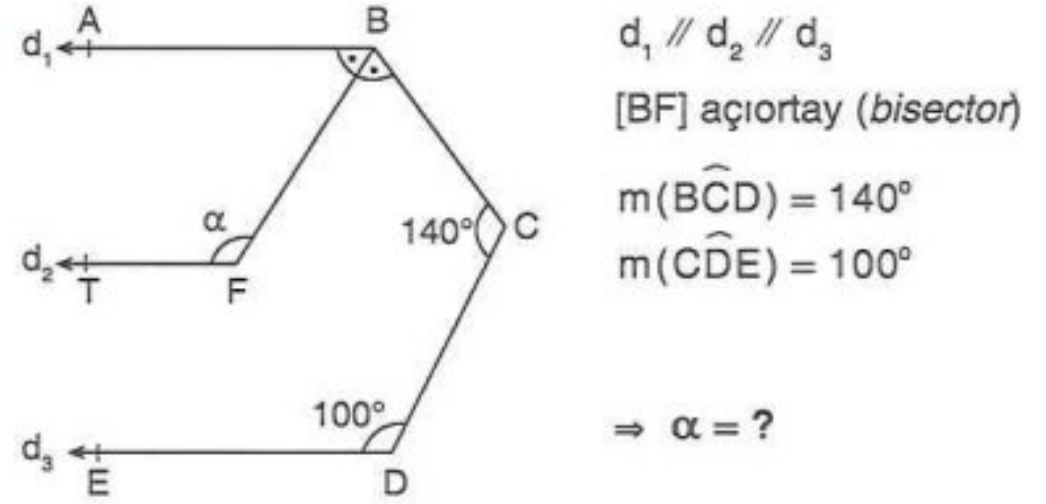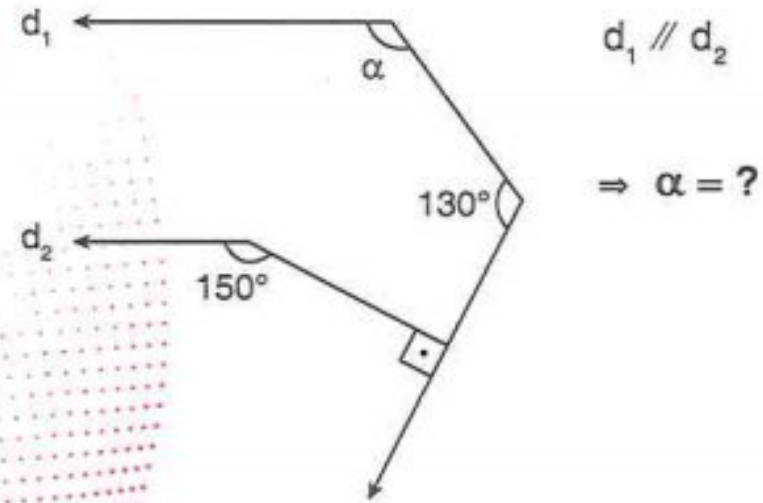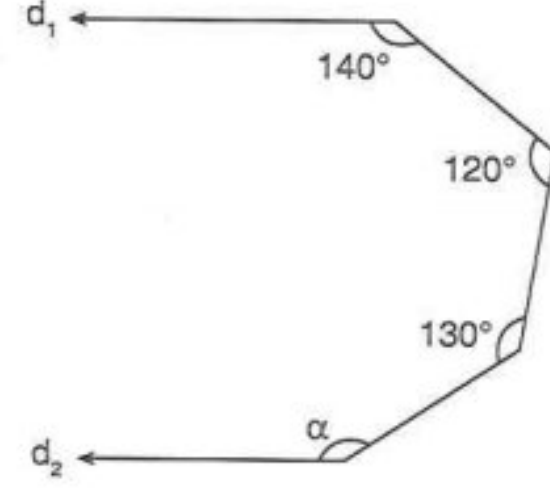
37.

$d_1 \parallel d_2$

$\Rightarrow \alpha = ?$

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

40.

[BD] açıortay (*bisector*)

$\Rightarrow \alpha = ?$
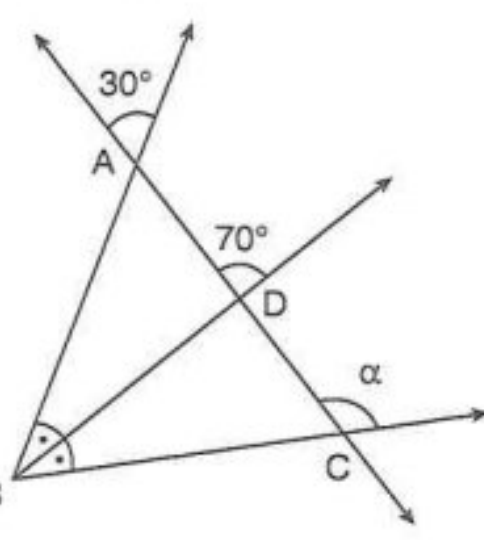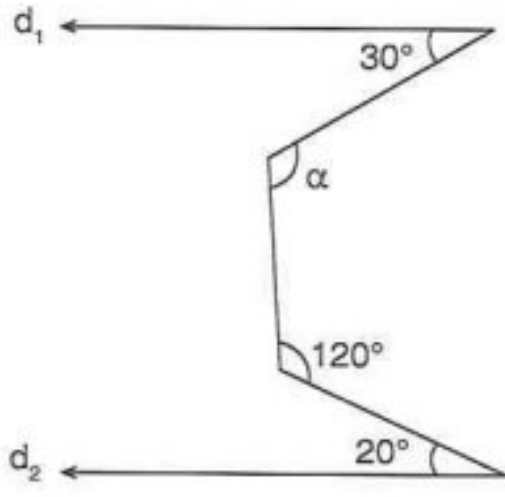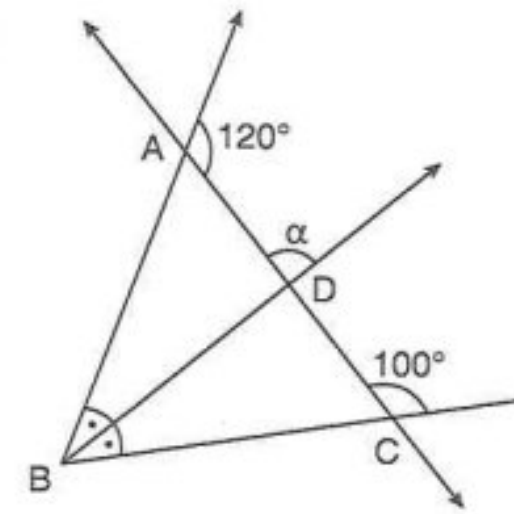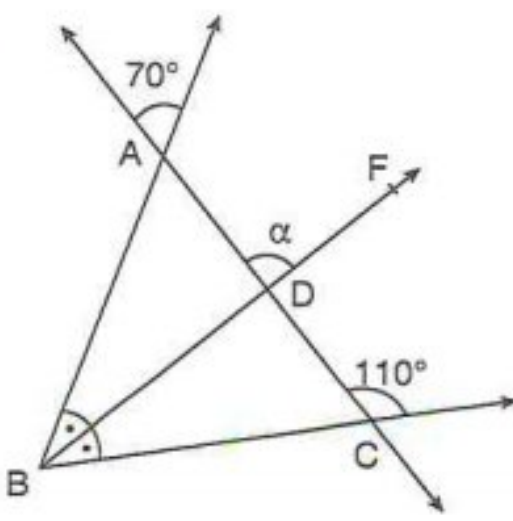
A) 120°   B) 110°   C) 100°   D) 90°   E) 80°
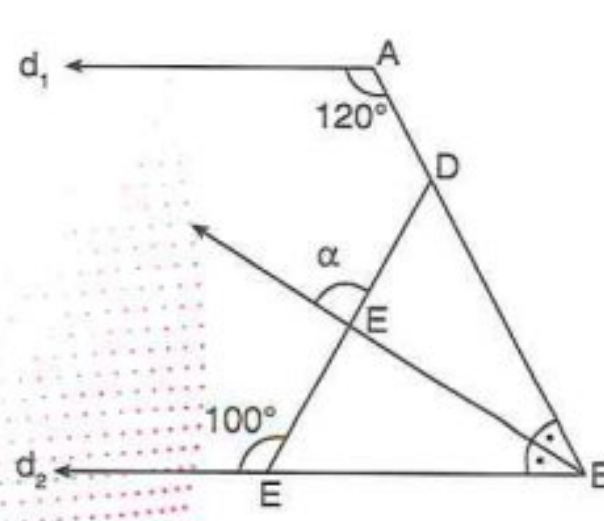
38.

$d_1 \parallel d_2$

$\Rightarrow \alpha = ?$

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

41.

[BD] açıortay (*bisector*)

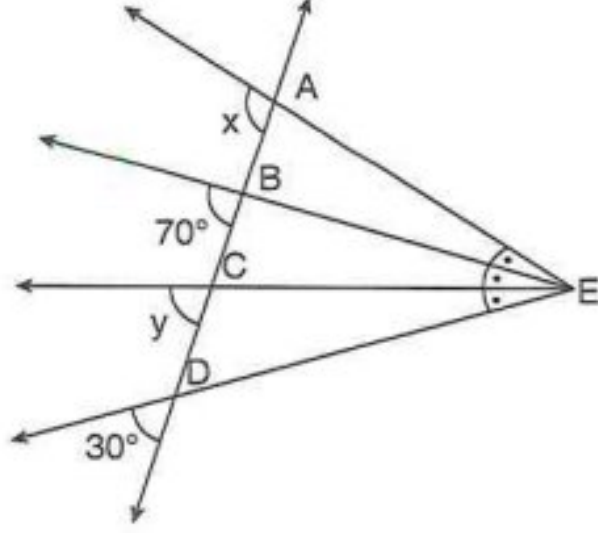$\Rightarrow \alpha = ?$

A) 80°   B) 90°   C) 100°   D) 110°   E) 120°

39.

[BF açıortay (*bisector*)

$\Rightarrow \alpha = ?$

A) 130°   B) 110°   C) 100°   D) 95°   E) 90°

42.

[BE] açıortay (*bisector*)

$d_1 \parallel d_2$

$\Rightarrow \alpha = ?$

A) 60°   B) 70°   C) 80°   D) 85°   E) 90°

43.

[EB], [EC] açıortay
(*bisector*)

$\Rightarrow x - y = ?$

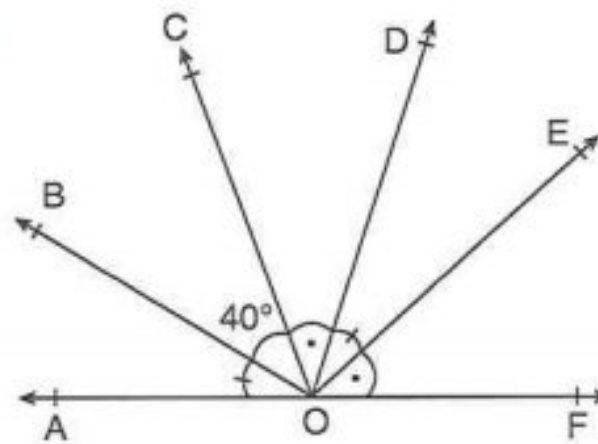A) 80°   B) 70°   C) 60°   D) 50°   E) 40°

46.

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

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

A) 50°   B) 60°   C) 70°   D) 80°   E) 90°

44.

[OA ⊥ [OE
[OB, [OD açıortay (*bisector*)

$\Rightarrow m(\widehat{BOD}) = ?$
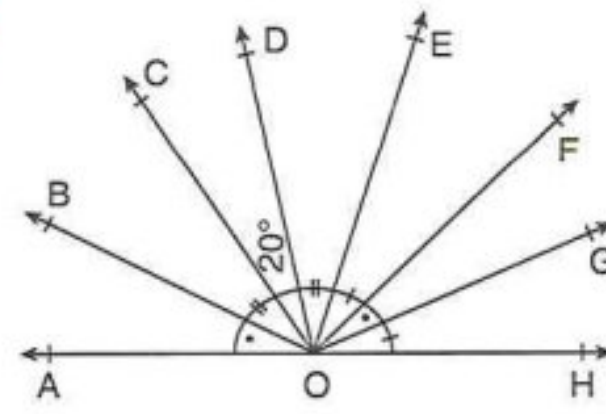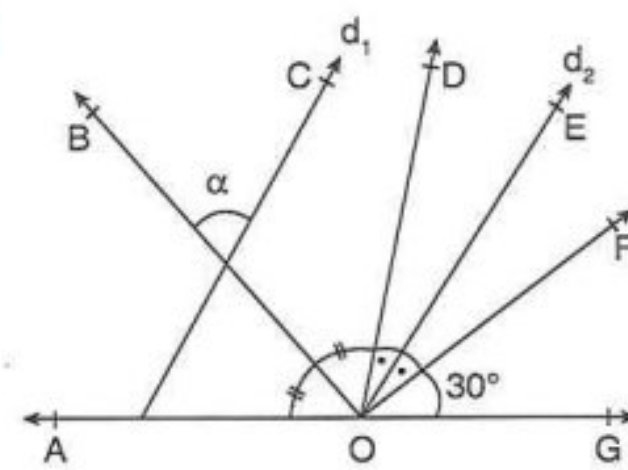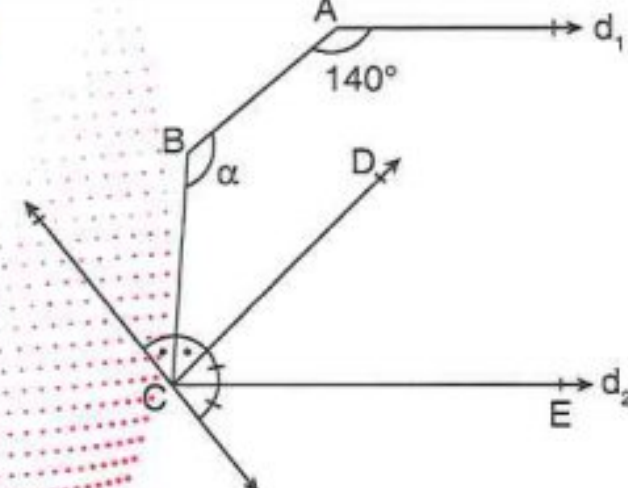
A) 45°   B) 50°   C) 60°   D) 70°   E) 90°

47.

$d_1 \parallel d_2$

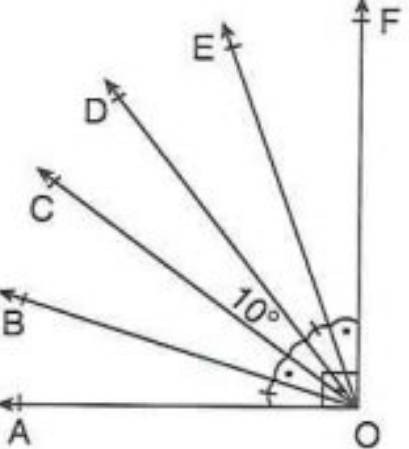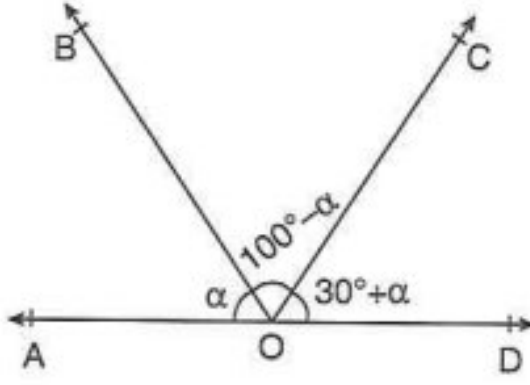[OB, [OE açıortay
(*bisector*)

$\Rightarrow \alpha = ?$

A) 105°   B) 90°   C) 85°   D) 75°   E) 60°

45.

$m(\widehat{BOA}) = m(\widehat{DOE})$
$m(\widehat{COD}) = m(\widehat{EOF})$
$m(\widehat{BOC}) = 40°$

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

A) 70°   B) 85°   C) 90°   D) 95°   E) 110°
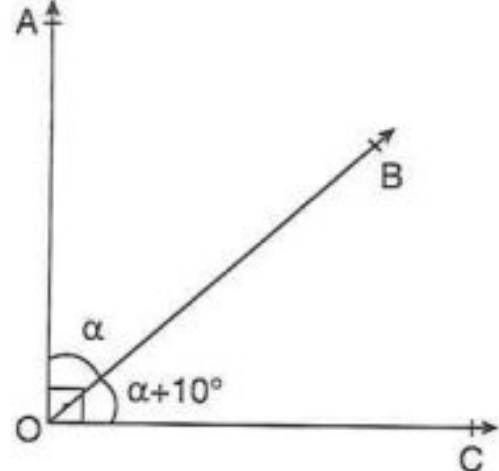
48.

$d_1 \parallel d_2$

[CB, [CE açıortay
(*bisector*)

$\Rightarrow \alpha = ?$
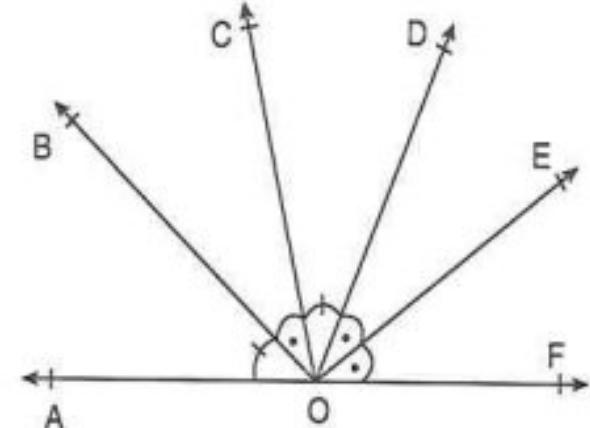
A) 70°   B) 80°   C) 95°   D) 120°   E) 130°

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

1.

[OA ⊥ [OC
$m(A\widehat{O}B) = \alpha$
$m(C\widehat{O}B) = \alpha + 10°$

$\Rightarrow \alpha = ?$

A) 20° B) 30° C) 40° D) 50° E) 60°

2.

[OF ⊥ [OA
$m(E\widehat{O}F) = m(B\widehat{O}C)$
$m(A\widehat{O}B) = m(D\widehat{O}E)$
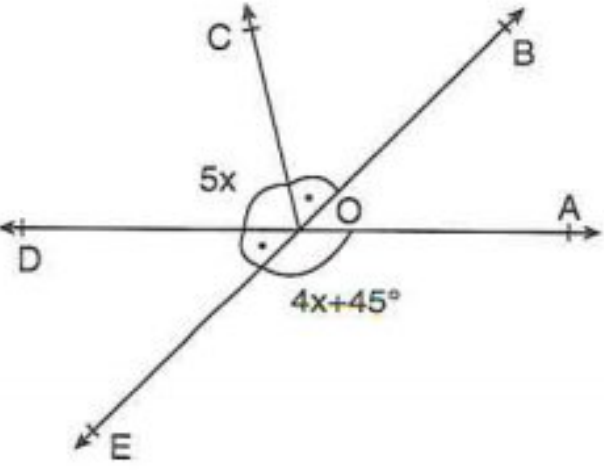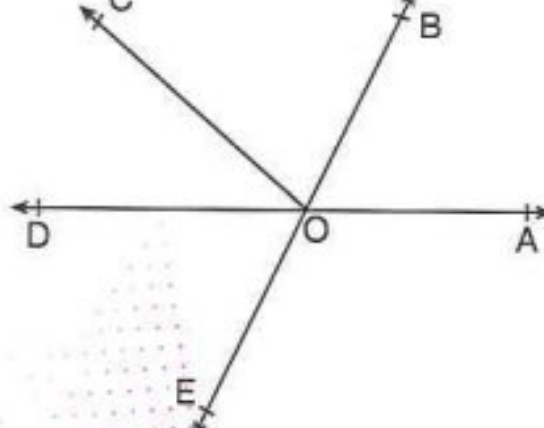$m(C\widehat{O}D) = 10°$

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

A) 40° B) 50° C) 60° D) 70° E) 80°

3.

$m(D\widehat{O}E) = m(C\widehat{O}B)$
$m(A\widehat{O}E) = 4x + 45°$
$m(D\widehat{O}C) = 5x$

$\Rightarrow x = ?$

A) 10° B) 15° C) 20° D) 25° E) 30°

4.

$m(A\widehat{O}B) = m(C\widehat{O}D)$
$m(B\widehat{O}C) = m(D\widehat{O}E) = m(E\widehat{O}F)$
$m(C\widehat{O}D) = 15°$

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

A) 65° B) 75° C) 85° D) 115° E) 135°

5.

$m(A\widehat{O}B) = \alpha$
$m(B\widehat{O}C) = 100° - \alpha$
$m(C\widehat{O}D) = \alpha + 30°$

$\Rightarrow \alpha = ?$

A) 30° B) 40° C) 50° D) 60° E) 70°

6.

$m(D\widehat{O}E) = 2m(C\widehat{O}B) = m(D\widehat{O}C) + 20$

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

A) 110° B) 100° C) 90° D) 80° E) 70°

< 15 >

7.

$[OE \perp [OA$
$m(D\widehat{O}C) = 2m(C\widehat{O}B) = 4m(B\widehat{O}A)$
$m(E\widehat{O}D) = m(C\widehat{O}B)$

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

A) 10°   B) 20°   C) 30°   D) 60°   E) 70°

10.

$AB /\!/ CD$
$m(E\widehat{F}B) = 35°$
$m(E\widehat{G}D) = \alpha - 20°$

$\Rightarrow \alpha = ?$

A) 55°   B) 40°   C) 35°   D) 30°   E) 25°

8.

$m(B\widehat{O}C) = 20° + x$
$m(C\widehat{O}D) = 110°$
$m(D\widehat{O}A) = 130° - x$

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

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

11.

$[BA /\!/ [DE$
$m(A\widehat{B}C) = 2\alpha - 10°$
$m(B\widehat{C}D) = \alpha$
$m(C\widehat{D}E) = 150°$

$\Rightarrow \alpha = ?$

A) 10°   B) 20°   C) 30°   D) 40°   E) 50°

9.

$[BA /\!/ [DE$
$m(A\widehat{B}C) = 70°$
$m(C\widehat{D}E) = 130°$

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

A) 20°   B) 30°   C) 40°   D) 50°   E) 60°

12.

$[BA /\!/ [CD$
$m(D\widehat{C}H) = m(B\widehat{C}E)$
$m(H\widehat{C}G) = m(E\widehat{C}F)$
$m(G\widehat{C}F) = 20°$
$m(A\widehat{B}C) = 90°$

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

A) 40°   B) 45°   C) 50°   D) 55°   E) 65°

< 16 >

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

1.
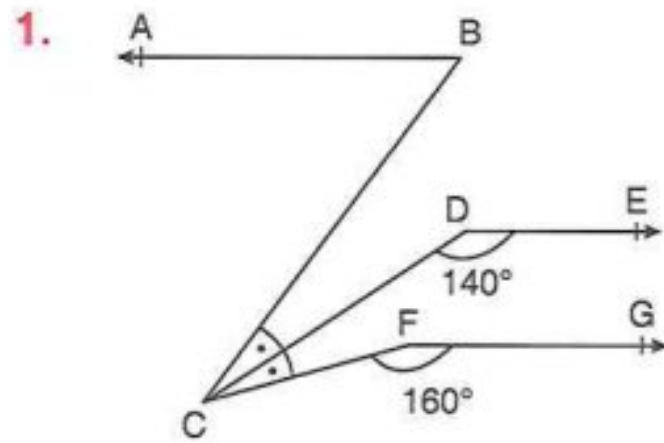
[BA // [DE // [FG
m(BĈD) = m(DĈF)
m(CF̂G) = 160°
m(CD̂E) = 140°

⇒ m(AB̂C) = ?

A) 40°   B) 50°   C) 60°   D) 70°   E) 80°

2.

[BA // [CD
m(AB̂C) = 2α + 30°
m(BĈD) = 3α − 50°

⇒ α = ?

A) 40°   B) 50°   C) 55°   D) 65°   E) 80°

3.
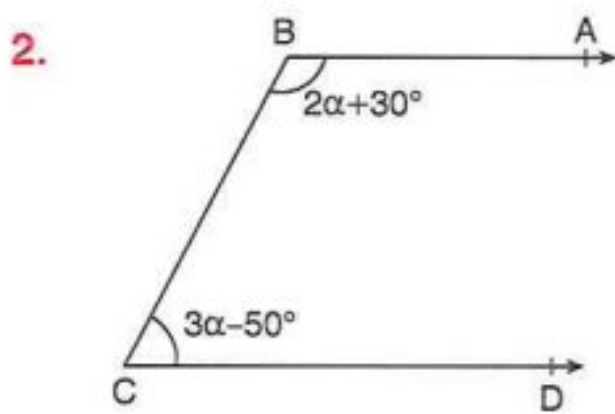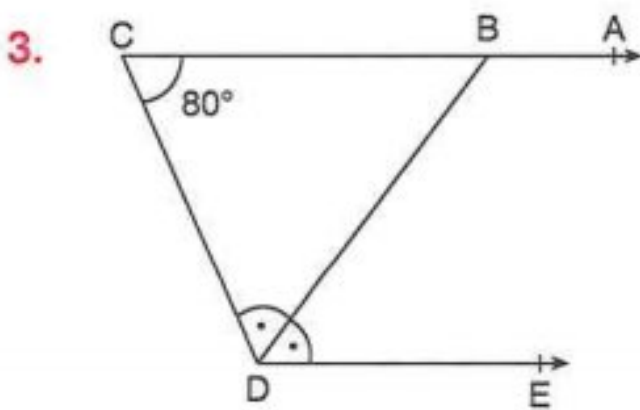
[CA // [DE
m(CD̂B) = m(BD̂E)
m(AĈD) = 80°

⇒ m(AB̂D) = ?

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

4.
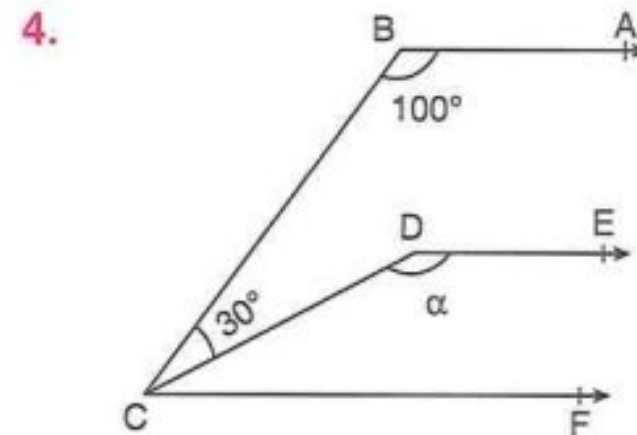
[BA // [DE // [CF
m(AB̂C) = 100°
m(BĈD) = 30°

⇒ m(CD̂E) = ?

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

5.
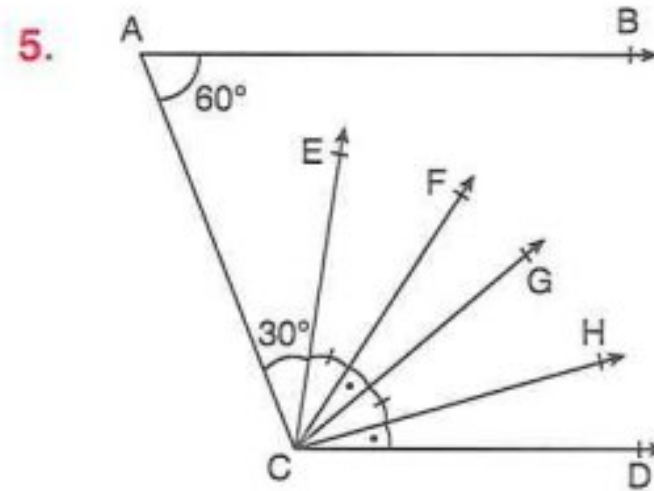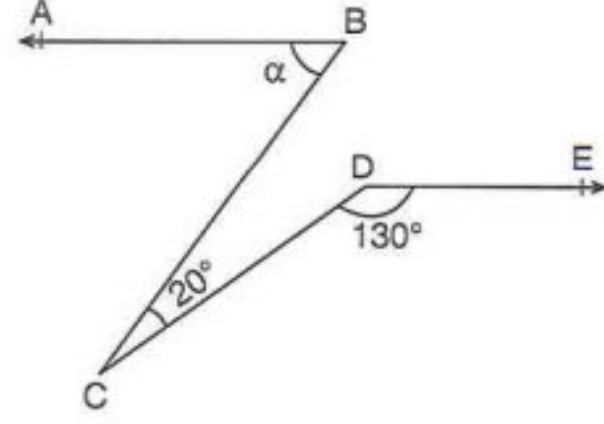
[AB // [CD
m(BÂC) = 60°
m(AĈE) = 30°
m(EĈF) = m(GĈH)
m(FĈG) = m(HĈD)

⇒ m(FĈH) = ?

A) 45°   B) 50°   C) 55°   D) 60°   E) 65°

6.
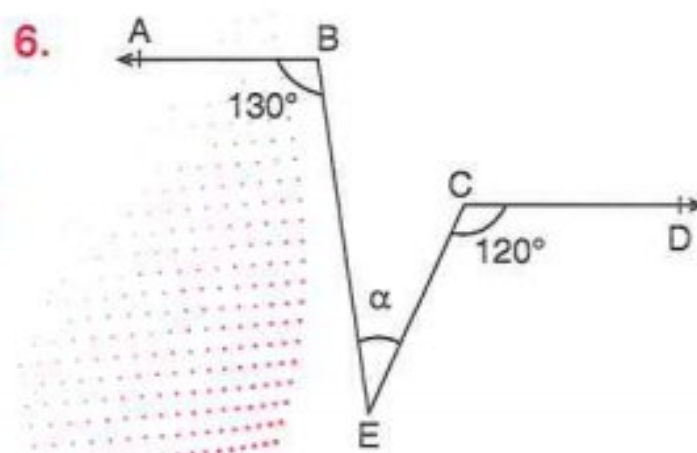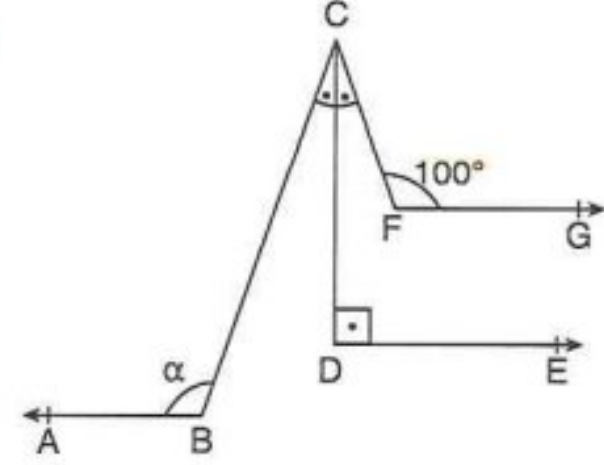
[BA // [CD
m(AB̂C) = 130°
m(EĈD) = 120°

⇒ m(BÊC) = α = ?

A) 40°   B) 50°   C) 60°   D) 70°   E) 80°

17
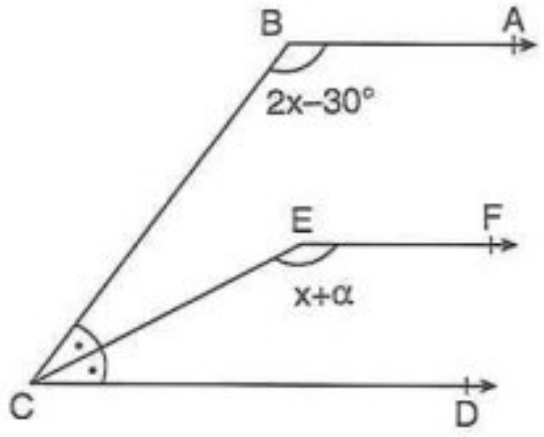
7.

[BA // [DE
m(BĈD) = 20°
m(CD̂E) = 130°

⇒ m(AB̂C) = α = ?
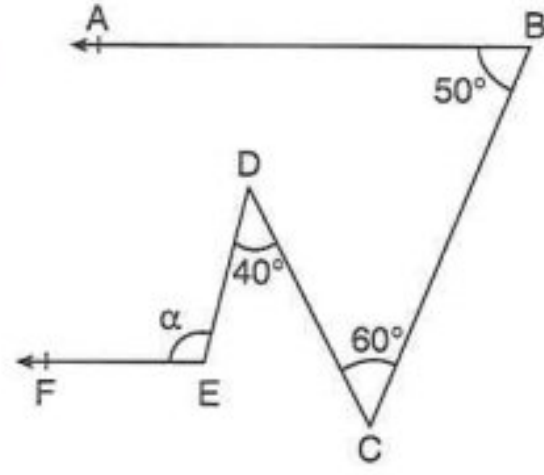
A) 40°   B) 50°   C) 60°   D) 70°   E) 80°

10.

[BA // [FG // [DE
[CD] ⊥ [DE
m(CF̂G) = 100°

⇒ m(AB̂C) = α = ?
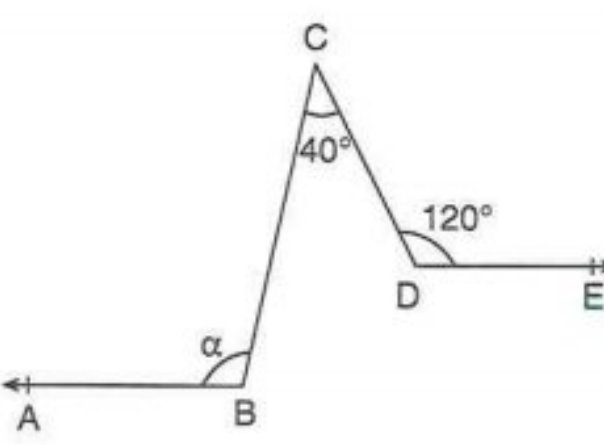
A) 90°   B) 100°   C) 110°   D) 120°   E) 130°

8.

[BA // [EF // [CD
m(AB̂C) = 2x − 30°
m(FÊC) = x + α
m(BĈE) = m(EĈD)

⇒ α = ?
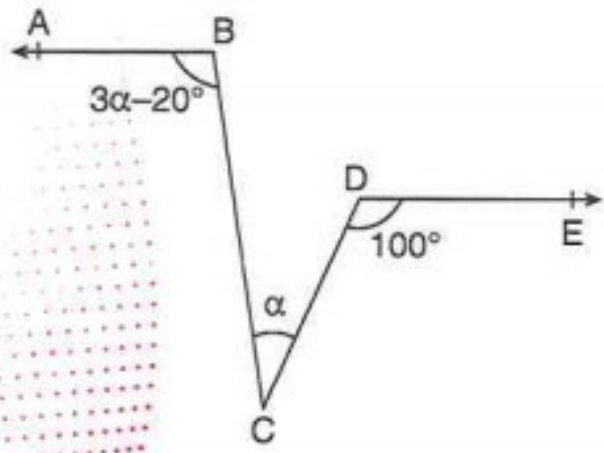
A) 75°   B) 65°   C) 60°   D) 55°   E) 50°

11.

[BA // [EF
m(AB̂C) = 50°
m(DĈB) = 60°
m(ED̂C) = 40°

⇒ m(FÊD) = α = ?
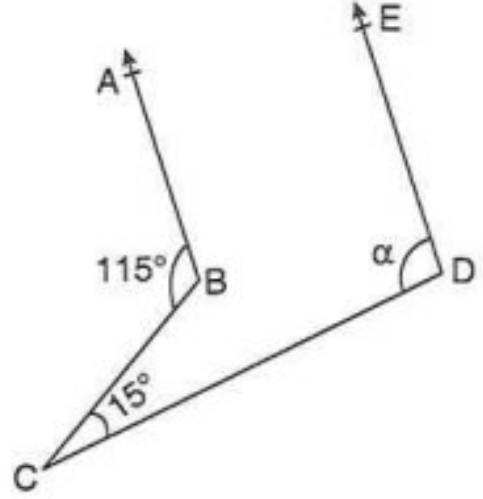
A) 95°   B) 100°   C) 105°   D) 110°   E) 120°

9.

[BA // [DE
m(ED̂C) = 120°
m(BĈD) = 40°

⇒ m(AB̂C) = ?
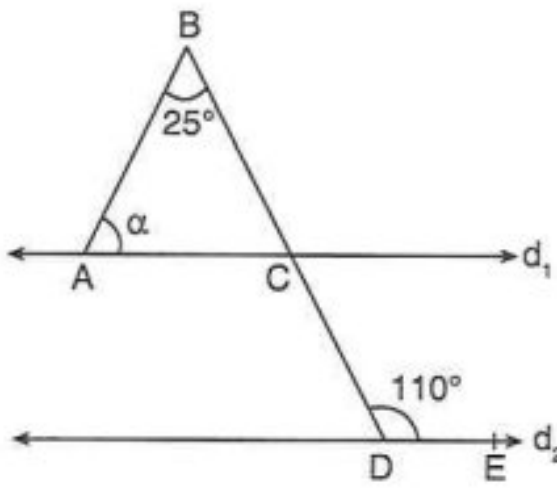
A) 70°   B) 80°   C) 90°   D) 100°   E) 120°

12.

[BA // [DE
m(AB̂C) = 3α − 20°
m(CD̂E) = 100°

⇒ m(BĈD) = α = ?

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 |

1.

[BA // [DE
m(AB�és) = 115°
m(ABĈ) = 115°
m(BĈD) = 15°

⇒ **m(CD̂E) = α = ?**

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

2.

[BA // [EF
m(BĈD) = 30°
m(ED̂C) = 50°
m(FÊD) = 110°

⇒ **m(AB̂C) = α = ?**

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

3.

[BA // [DE
m(CB̂A) = 120°
m(CD̂E) = 50°

⇒ **m(DĈB) = α = ?**
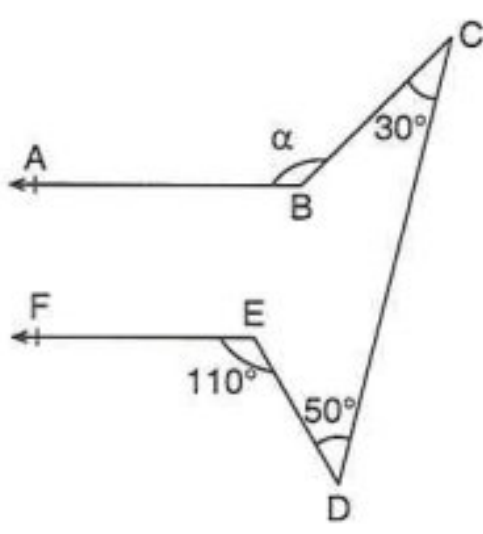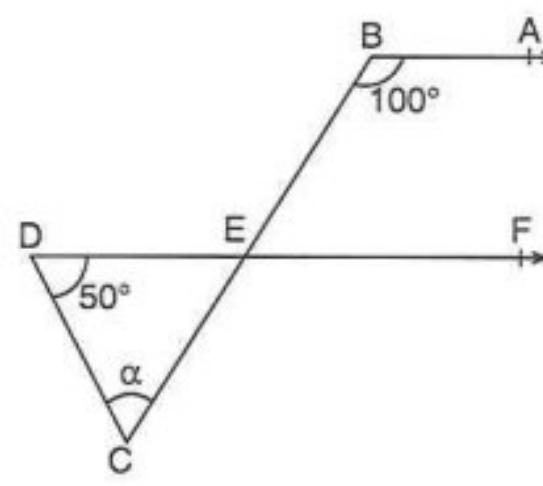
A) 50°   B) 60°   C) 70°   D) 80°   E) 90°

4.

d₁ // d₂
m(AB̂C) = 25°
m(BD̂E) = 110°

⇒ **m(BÂC) = α = ?**

A) 65°   B) 70°   C) 75°   D) 80°   E) 85°
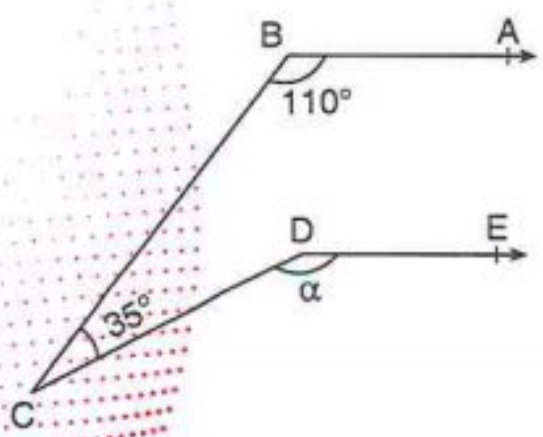
5.

[BA // [DF
m(AB̂C) = 100°
m(FD̂C) = 50°

⇒ **m(DĈB) = α = ?**

A) 40°   B) 50°   C) 60°   D) 70°   E) 80°

6.

[BA // [DE
m(AB̂C) = 110°
m(BĈD) = 35°

⇒ **m(CD̂E) = α = ?**

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

7.
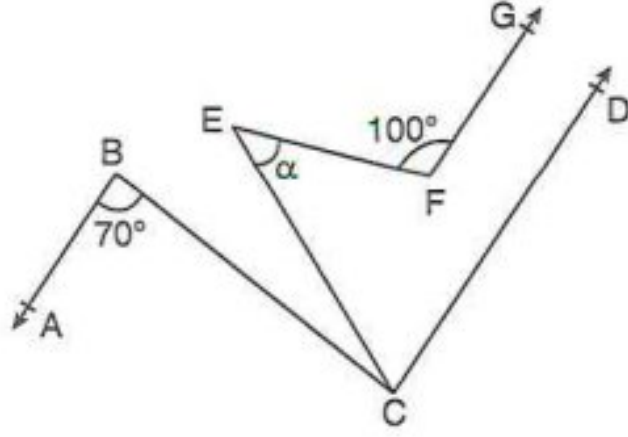
[BA // [CD // [FG
4m(BĈE) = 3m(EĈD)
m(AB̂C) = 70°
m(EF̂G) = 100°

⇒ m(CÊF) = α = ?

A) 15°   B) 30°   C) 50°   D) 60°   E) 80°

10.

[BA // [DE
m(AB̂C) = 45°
m(CD̂E) = 135°

⇒ m(BĈD) = α = ?

A) 80°   B) 90°   C) 95°   D) 100°   E) 110°

8.
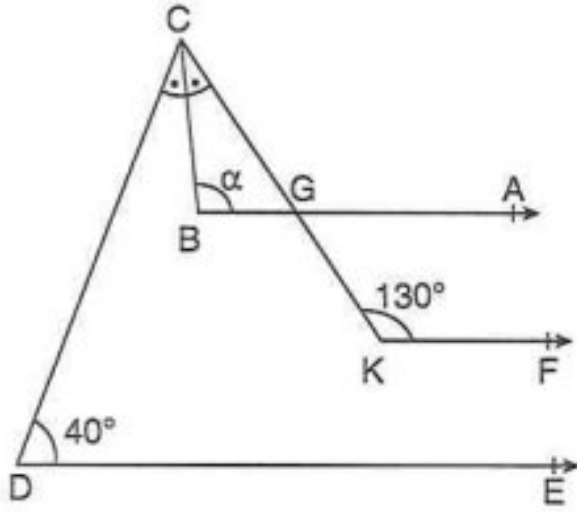
[BA // [KF // [DE
[CB] açıortay (bisector)
m(CK̂F) = 130°
m(CD̂E) = 40°

⇒ m(CB̂A) = ?

A) 55°   B) 60°   C) 65°   D) 75°   E) 85°

11.
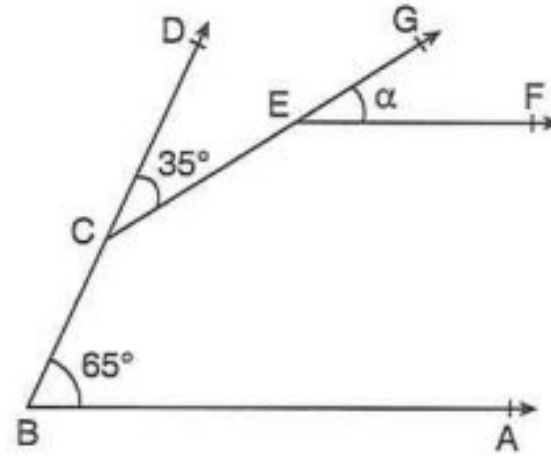
[BA // [EF
m(DB̂A) = 65°
m(DĈG) = 35°

⇒ m(GÊF) = ?

A) 20°   B) 30°   C) 40°   D) 50°   E) 60°

9.

[BA // [DE
m(AB̂K) = m(BĈD)
m(CD̂E) = 130°

⇒ m(KB̂C) = α = ?

A) 40°   B) 45°   C) 50°   D) 55°   E) 65°
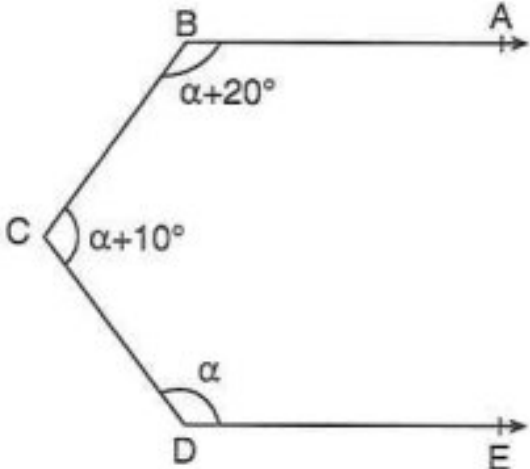
12.
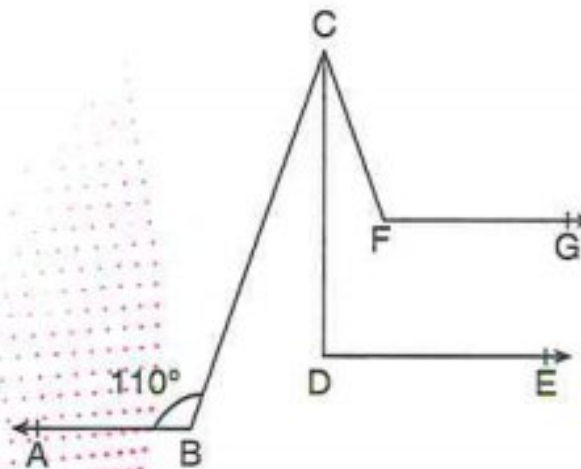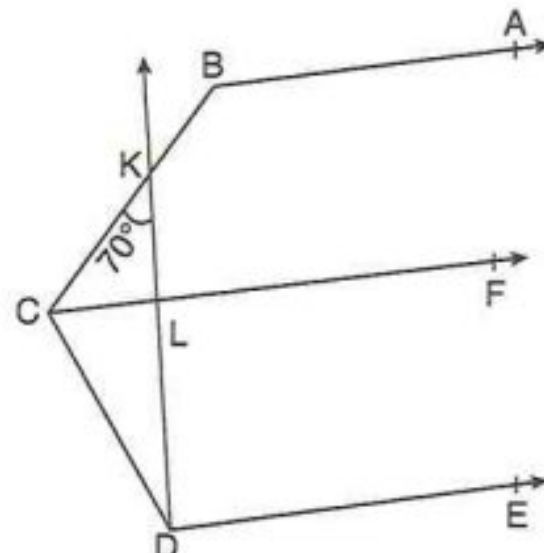
[BA // [FG // [DE
2m(BĈD) = 3m(DĈF)
m(AB̂C) = 110°
m(CD̂E) = 100°

⇒ m(CF̂G) = ?

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

1.

[BA // [DE
m(ABĈ) = α + 20°
m(BĈD) = α + 10°
m(CD̂E) = α

⇒ α = ?
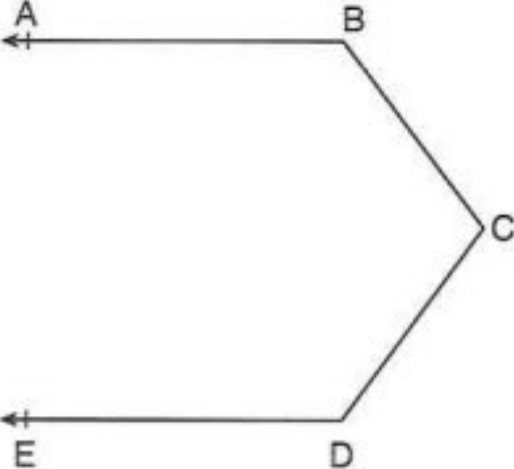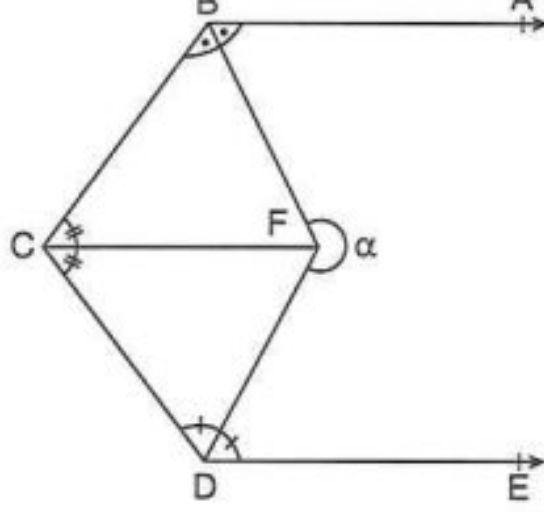
A) 110°   B) 120°   C) 130°   D) 140°   E) 150°

4.

[BA // [CF // [DE
2m(BĈF) = m(FĈD)
m(CK̂D) = 70°
m(KL̂F) = 100°

⇒ m(CB̂A) − m(CD̂E) = ?
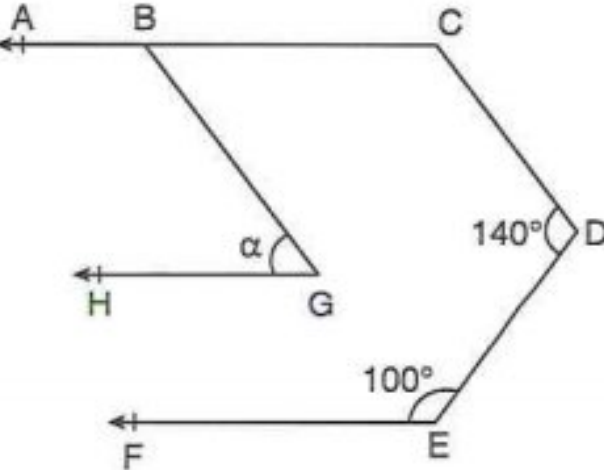
A) 10°   B) 20°   C) 30°   D) 50°   E) 55°

2.

[BA // [DE
4m(AB̂C) = 3m(BĈD) = 4m(CD̂E)

⇒ m(BĈD) = ?
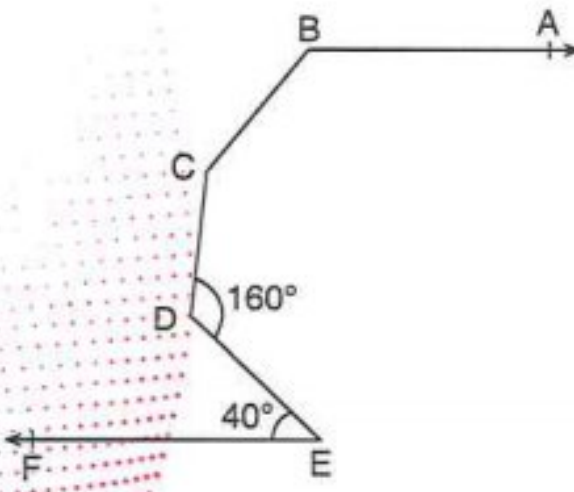
A) 36°   B) 72°   C) 108°   D) 144°   E) 168°

5.

[BA // [DE

[BF], [CF], [DF] açıortay
(bisector)

m(BĈF) = 70°

⇒ α = ?
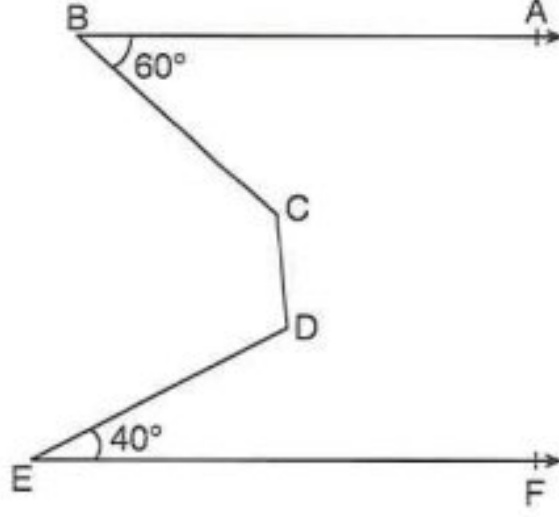
A) 200°   B) 210°   C) 230°   D) 240°   E) 250°

3.

[CA // [GH // [EF
[BG] // [CD]
m(CD̂E) = 140°
m(FÊD) = 100°

⇒ m(HĜB) = α = ?

A) 40°   B) 50°   C) 60°   D) 70°   E) 80°
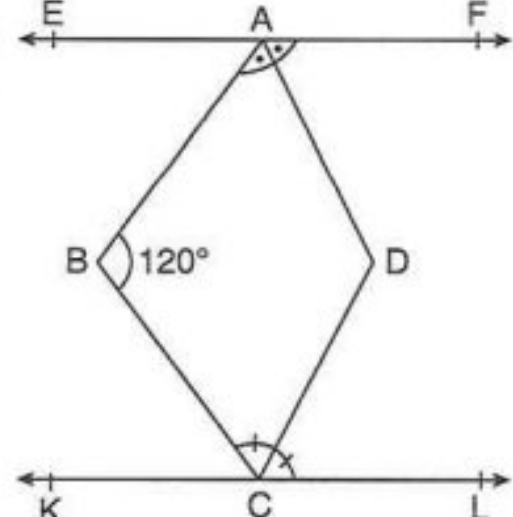
6.

[BA // [EF
m(CD̂E) = 160°
m(DÊF) = 40°

⇒ m(AB̂C) = m(BĈD) = ?

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

7.
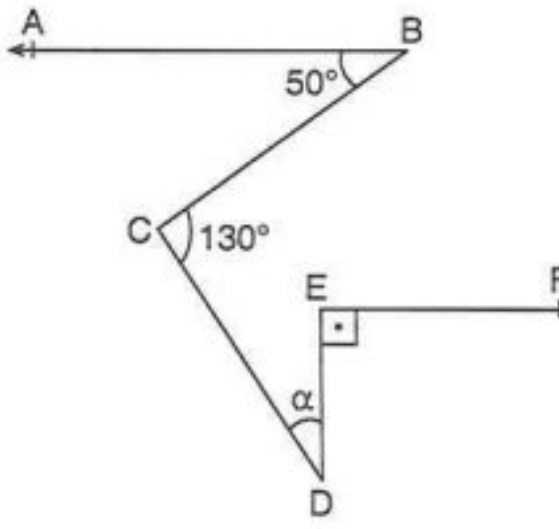
[BA // [EF
m(ABĈ) = 60°
m(DÊF) = 40°
3m(BĈD) = 4m(CDÊ)

⇒ **m(BĈD) = ?**

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

10.
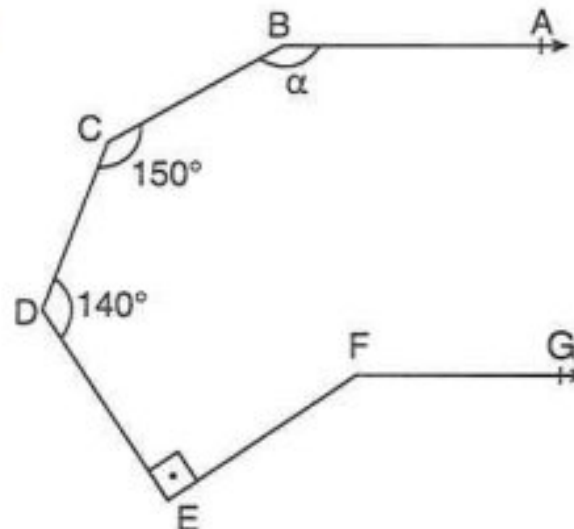
EF // KL
m(BÂD) = m(DÂF)
m(BĈD) = m(DĈL)
m(ABĈ) = 120°

⇒ **m(ADĈ) = ?**

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

8.
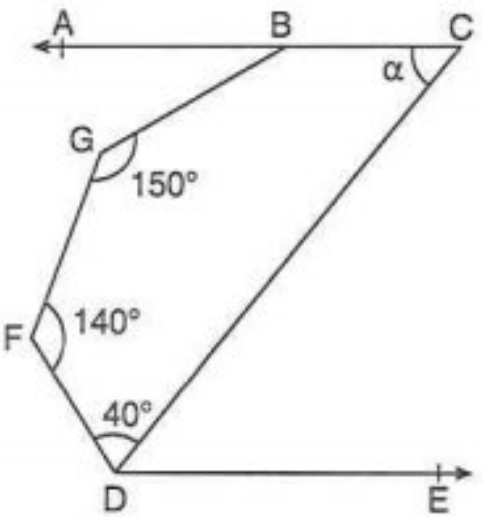
[BA // [EF
m(ABĈ) = 50°
m(BĈD) = 130°
m(DÊF) = 90°

⇒ **m(CDÊ) = α = ?**

A) 5°   B) 10°   C) 15°   D) 20°   E) 30°

11.
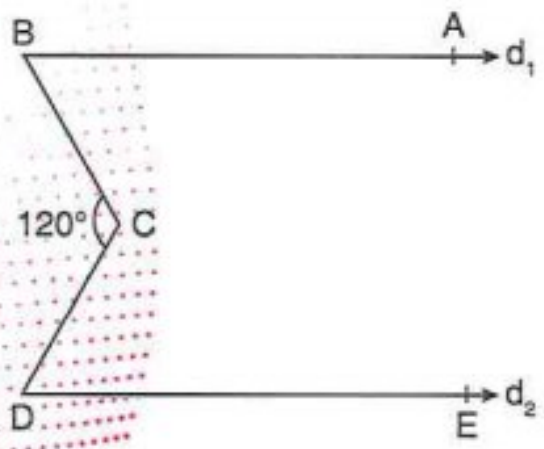
[BA // [FG
[FE] ⊥ [DE]
m(BĈD) = 150°
m(CDÊ) = m(EFĜ) = 140°

⇒ **m(ABĈ) = ?**

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

9.
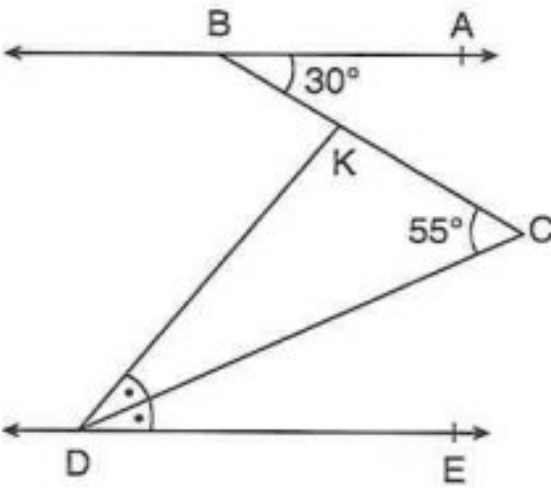
[CA // [DE
m(ABĜ) = 30°
m(BĜF) = 150°
m(GFD) = 140°
m(FDĈ) = 40°

⇒ **m(ACD) = ?**

A) 20°   B) 25°   C) 40°   D) 45°   E) 60°

12.

[BA // [DE
5m(ABĈ) = 7m(CDÊ)
m(BĈD) = 120°

⇒ **m(CDÊ) = ?**

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

1.

B   A
30°
K
55° C
D   E
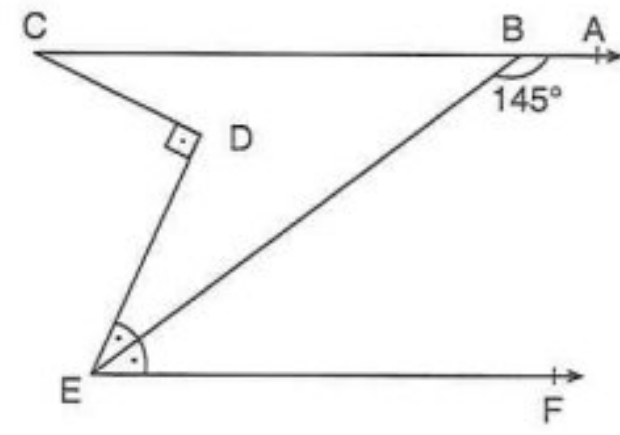
BA // DE
m(ABC) = 30°
m(BĈD) = 55°
m(KD̂C) = m(CD̂E)

⇒ **m(BK̂D) = ?**

A) 60°   B) 70°   C) 80°   D) 90°   E) 100°

4.

C   B   A
145°
D
E   F
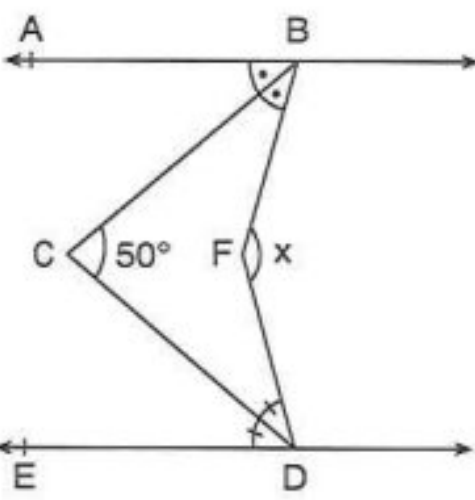
[CA // [EF
[CD] ⊥ [DE]
m(AB̂E) = 145°

⇒ **m(AĈD) = ?**

A) 10°   B) 20°   C) 30°   D) 40°   E) 50°

2.

A   B
C   50°   F   x
E   D
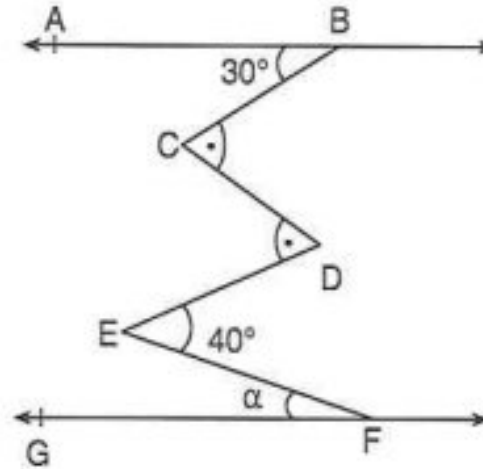
AB // ED
m(AB̂C) = m(CB̂F)
m(ED̂C) = m(CD̂F)
m(BĈD) = 50°

⇒ **m(BF̂D) = x = ?**

A) 75°   B) 90°   C) 100°   D) 125°   E) 130°

5.

A   B
30°
C
D
E   40°
α
G   F
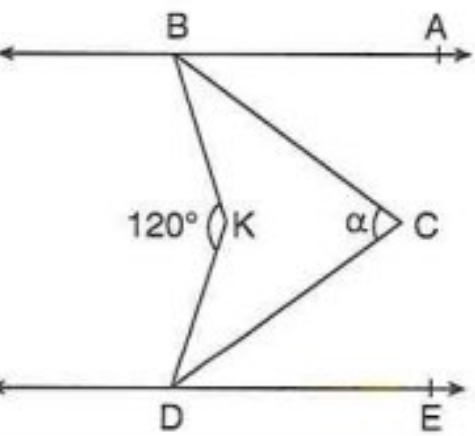
AB // FG
m(BĈD) = m(CD̂E)
m(AB̂C) = 30°
m(DÊF) = 40°

⇒ **m(EF̂G) = α = ?**

A) 5°   B) 10°   C) 15°   D) 20°   E) 25°

3.

B   A
120°   K   α   C
D   E
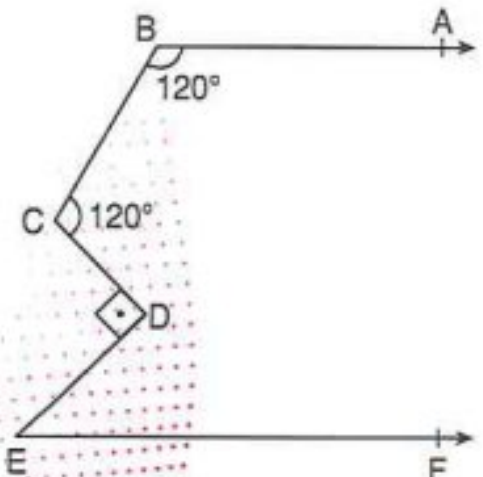
BA // DE
m(AB̂C) = 2m(KB̂C)
m(CD̂E) = 2m(KD̂C)
m(BK̂D) = 120°

⇒ **m(BĈD) = ?**

A) 40°   B) 60°   C) 80°   D) 100°   E) 110°

6.

B   A
120°
C   120°
D
E   F

[BA // [EF
m(AB̂C) = m(BĈD)
[CD ⊥ [DE]

⇒ **m(DÊF) = ?**

A) 20°   B) 30°   C) 40°   D) 50°   E) 60°

7.
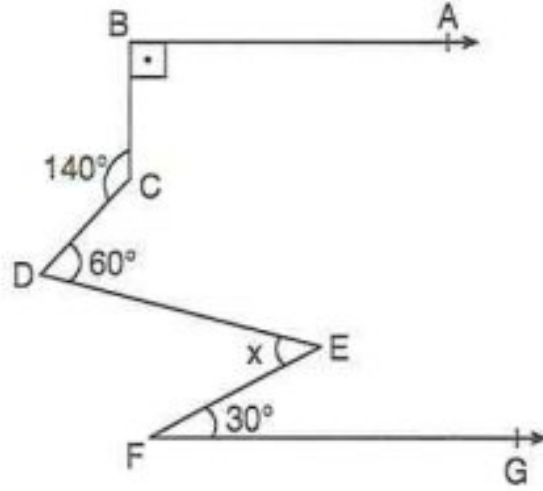
[BA // [FG
m(ABC) = 90°
m(BCD) = 140°
m(CDE) = 60°
m(EFG) = 30°

⇒ m(DEF) = x = ?

A) 30°   B) 40°   C) 50°   D) 60°   E) 70°

10.

[BA // [EF
[BC] ⊥ [CD]
m(CDE) = 80°
m(DEF) = 150°

⇒ m(CBG) = m(GBA) = ?

A) 60°   B) 65°   C) 70°   D) 75°   E) 80°

8.

[BA // [FG
[CD] // [EF]
[BC] ⊥ [CD]
m(ABC) = 40°

⇒ m(EFG) = x = ?

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

11.
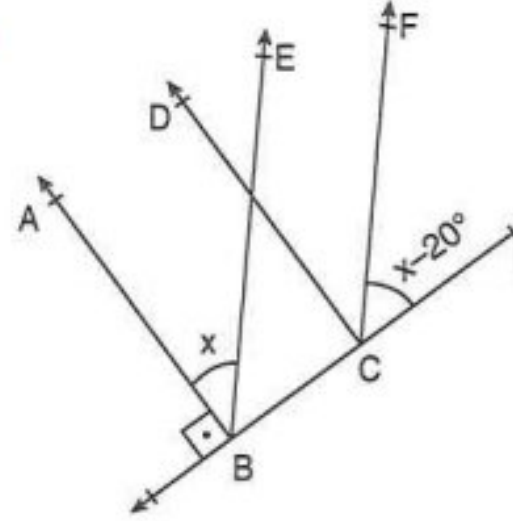
[BA // [CD
[BE // [CF
[BA ⊥ BG
m(ABE) = x
m(FCG) = x − 20°

⇒ x = ?

A) 35°   B) 45°   C) 55°   D) 65°   E) 75°

9.

[BA // [EF
[CD] ⊥ [DE]
m(BCD) = 70°
m(DEF) = 60°

⇒ m(ABC) = ?

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

12.
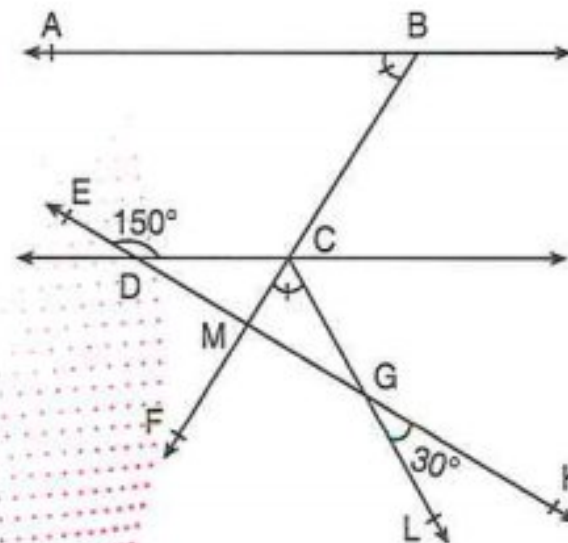
AB // DC
m(ABF) = m(FCL)
m(EDC) = 150°
m(LGK) = 30°

⇒ m(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

1.
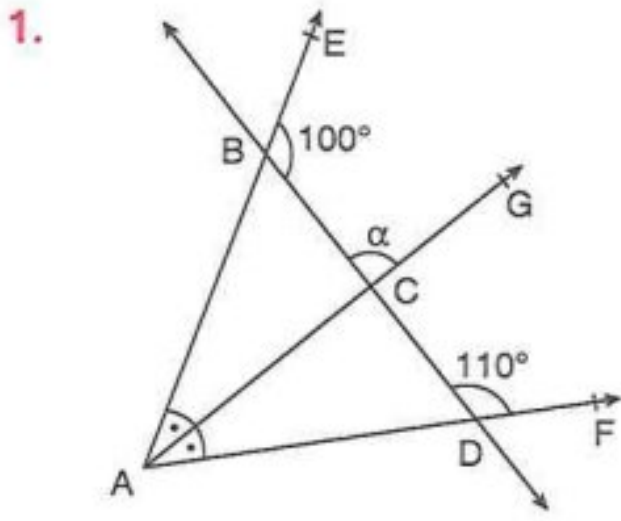
$m(\widehat{EAG}) = m(\widehat{GAF})$
$m(\widehat{EBD}) = 100°$
$m(\widehat{BDF}) = 110°$

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

A) 80°   B) 90°   C) 95°   D) 100°   E) 105°

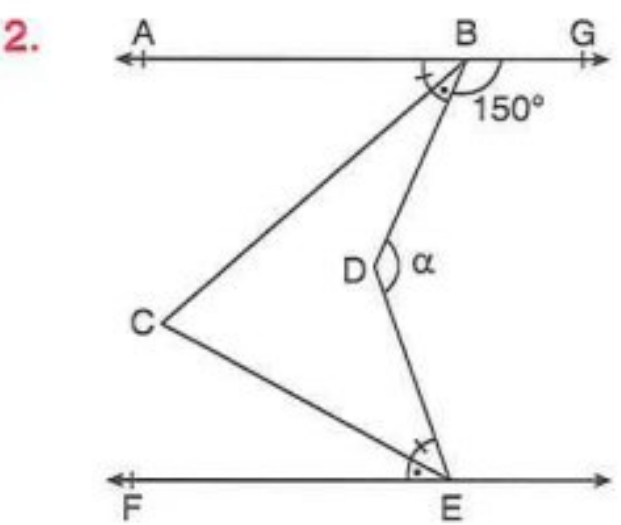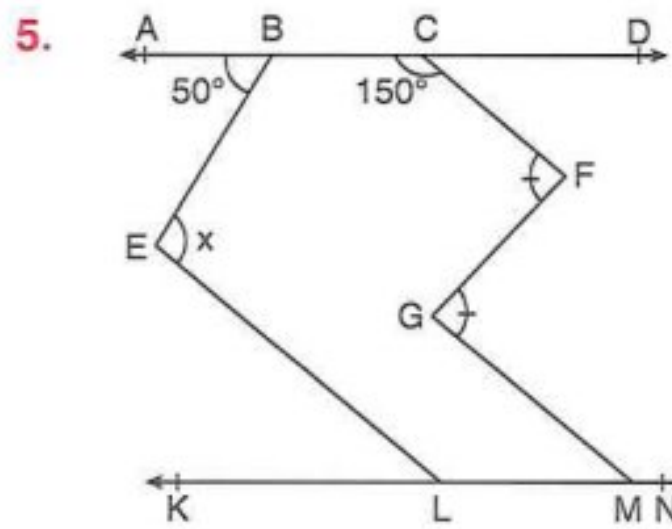**4.**
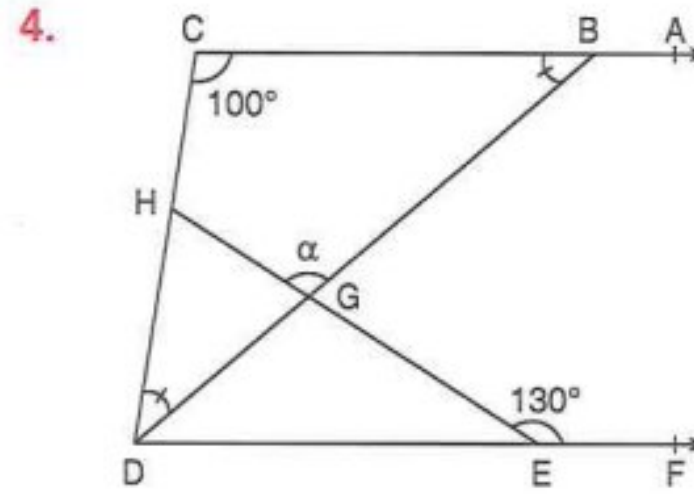
[CA // [DF
$m(\widehat{CBD}) = m(\widehat{CDB})$
$m(\widehat{ACD}) = 100°$
$m(\widehat{HEF}) = 130°$

$\Rightarrow m(\widehat{HGB}) = \alpha = ?$
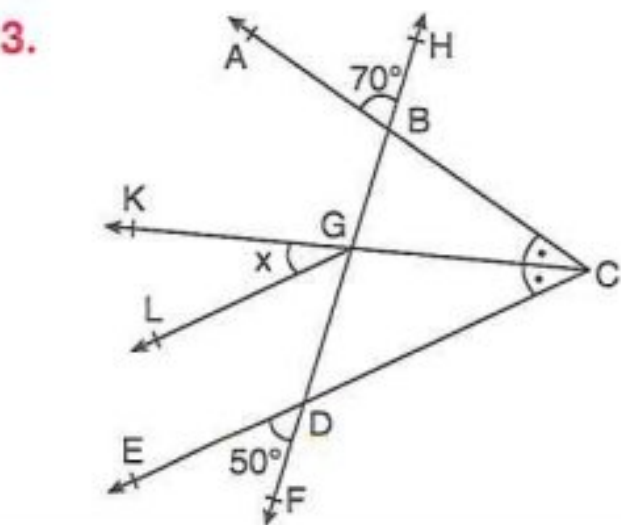
A) 50°   B) 60°   C) 70°   D) 80°   E) 90°

2.

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

$\Rightarrow m(\widehat{BDE}) = \alpha = ?$
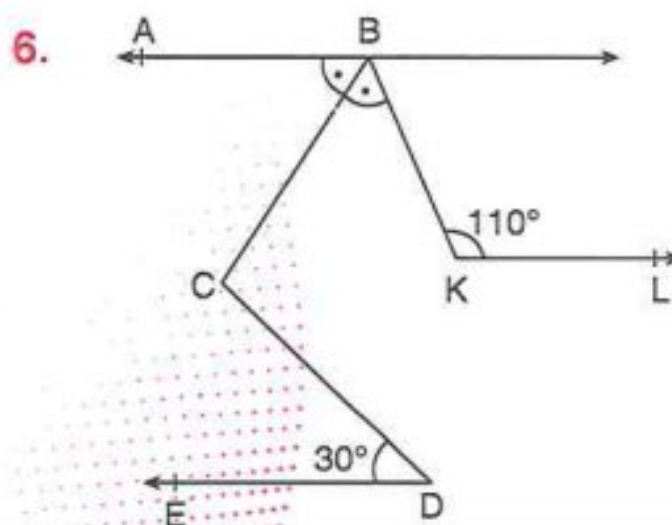
A) 30°   B) 40°   C) 60°   D) 75°   E) 80°

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°

3.

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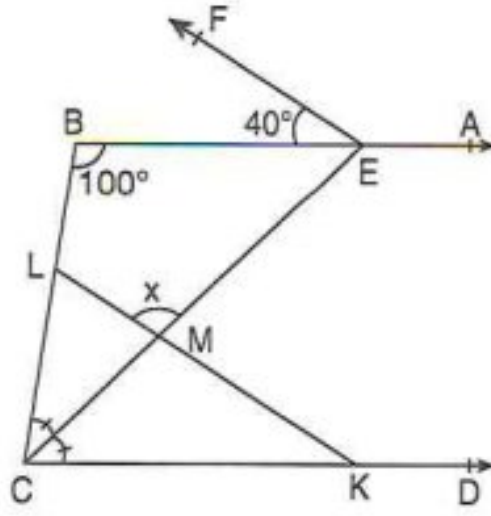$m(\widehat{EDF}) = 50°$

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

A) 10°   B) 20°   C) 30°   D) 40°   E) 50°

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°
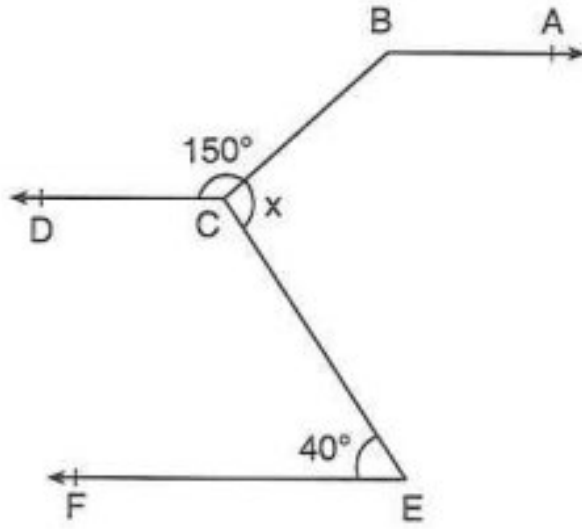
7.

[BA // [CD
[EF // [KL]
[CE] açıortay (bisector)
m(A$\widehat{B}$C) = 100°
m(F$\widehat{E}$B) = 40°

⇒ m(L$\widehat{M}$E) = x = ?

A) 70°   B) 80°   C) 90°   D) 100°   E) 110°

10.

[BA // [EF
[BC // [DE]
m(F$\widehat{E}$D) = 30°
m(E$\widehat{D}$B) = 100°

⇒ m(A$\widehat{B}$C) = x = ?

A) 30°   B) 50°   C) 65°   D) 70°   E) 80°

8.

[BA // [CD // [EF
m(B$\widehat{C}$D) = 150°
m(F$\widehat{E}$C) = 40°

⇒ m(E$\widehat{C}$B) = x = ?

A) 30°   B) 50°   C) 70°   D) 90°   E) 100°

11.
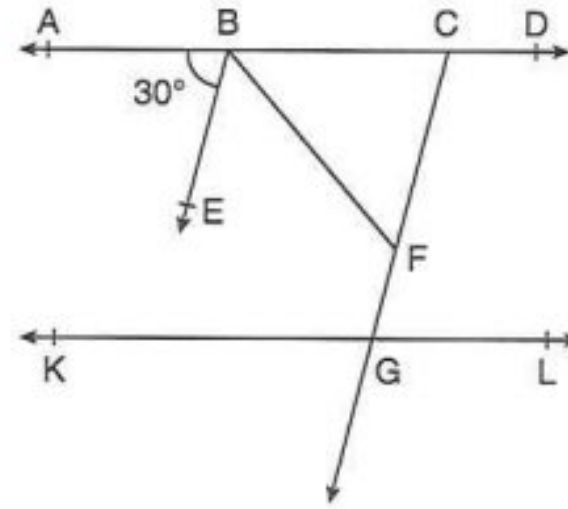
AD // KL
[BE // [CG
m(A$\widehat{B}$E) = 30°

⇒ m(C$\widehat{G}$L) = ?

A) 15°   B) 30°   C) 45°   D) 50°   E) 60°

9.

[BA // [EF
m(A$\widehat{B}$C) = 100°
m(B$\widehat{C}$D) = 30°
m(D$\widehat{E}$F) = 110°

⇒ m(C$\widehat{D}$E) = α = ?

A) 40°   B) 50°   C) 60°   D) 70°   E) 80°

12.
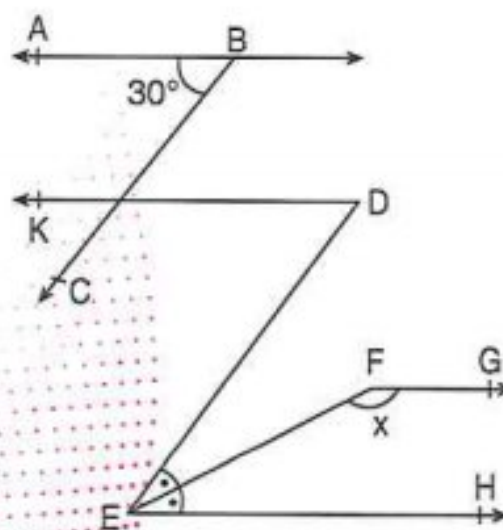
[BA // [DK // [FG // [EH
[BC // [DE]
m(D$\widehat{E}$F) = m(F$\widehat{E}$H)
m(A$\widehat{B}$C) = 30°

⇒ m(E$\widehat{F}$G) = x = ?

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

< 26 >

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

1.
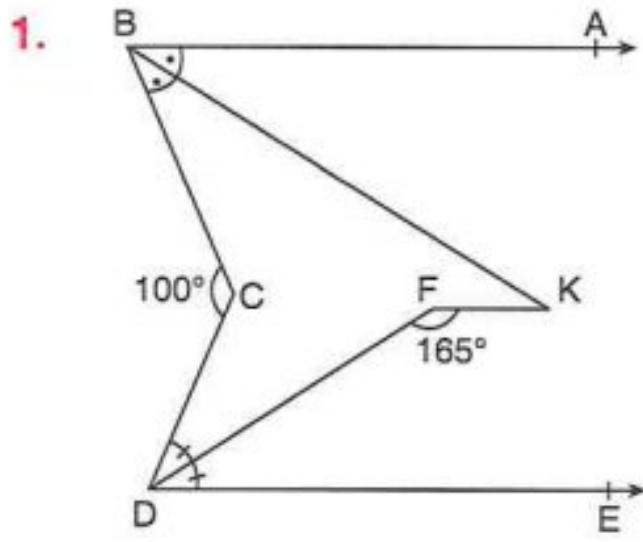
[BA // [FK] // [DE
m(ABK) = m(KBC)
m(CDF) = m(FDE)
m(BCD) = 110°
m(KFD) = 165°

⇒ m(BKF) = ?

A) 25°   B) 30°   C) 35°   D) 40°   E) 45°

4.
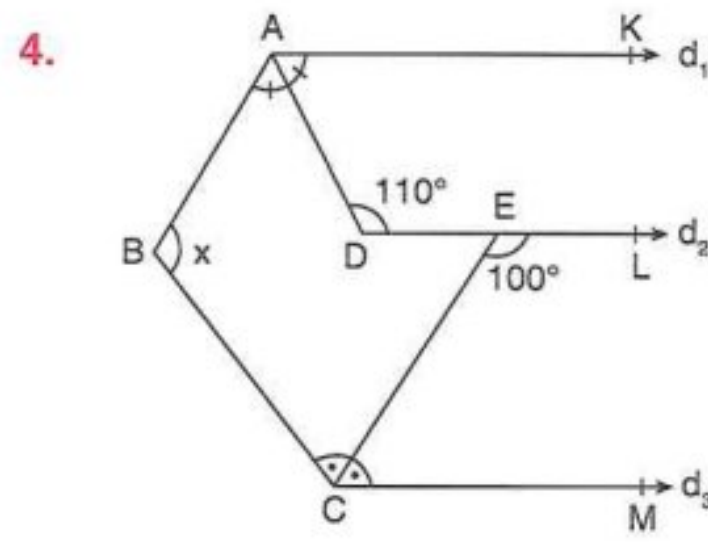
d₁ // d₂ // d₃
m(KAD) = m(DAB)
m(BCE) = m(ECM)
m(ADL) = 110°
m(CEL) = 100°

⇒ m(ABC) = x = ?

A) 50°   B) 60°   C) 70°   D) 80°   E) 90°

2.
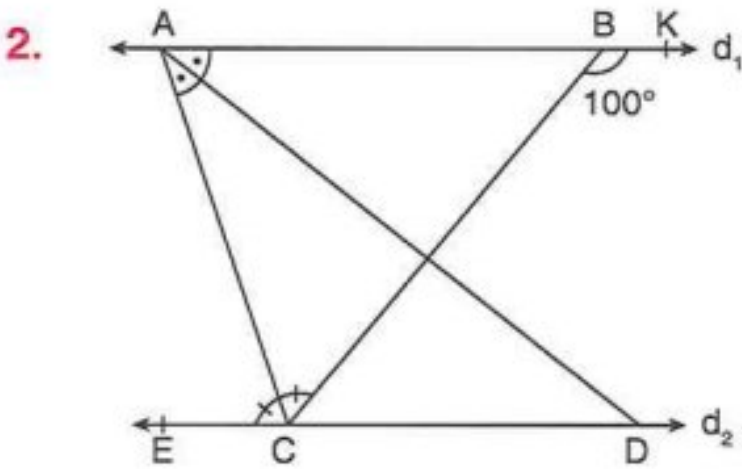
d₁ // d₂
m(BAD) = m(DAC)
m(ECA) = m(ACB)
m(KBC) = 100°

⇒ m(ADE) = ?

A) 35°   B) 30°   C) 25°   D) 20°   E) 15°

5.
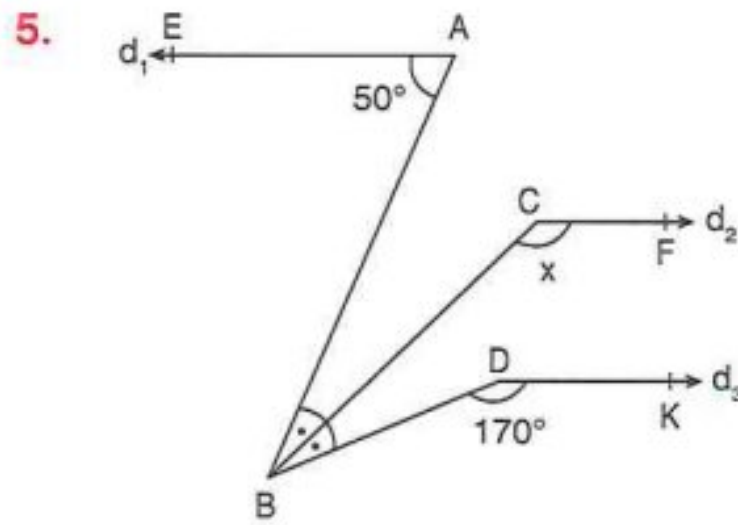
d₁ // d₂ // d₃
m(ABC) = m(CBD)
m(EAB) = 50°
m(BDK) = 170°

⇒ m(BCF) = x = ?

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

3.

d₁ // d₂
m(EAB) = m(BAD)
m(ABC) = 70°
m(AFC) = 130°

⇒ m(BCD) = x = ?

A) 10°   B) 15°   C) 20°   D) 25°   E) 30°

6.
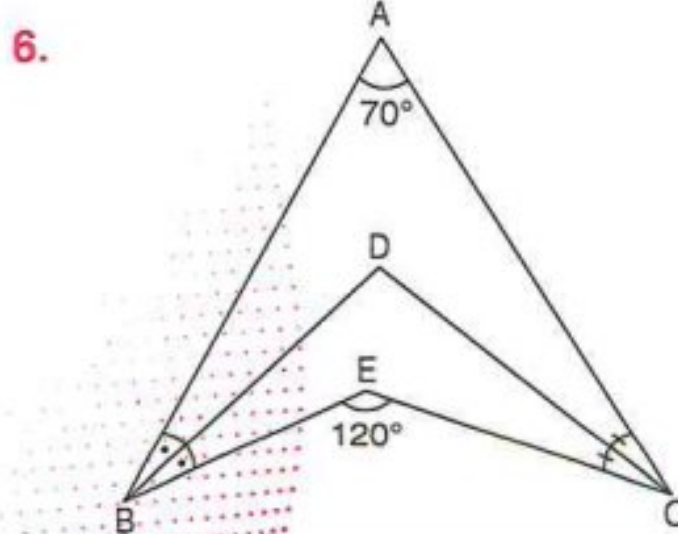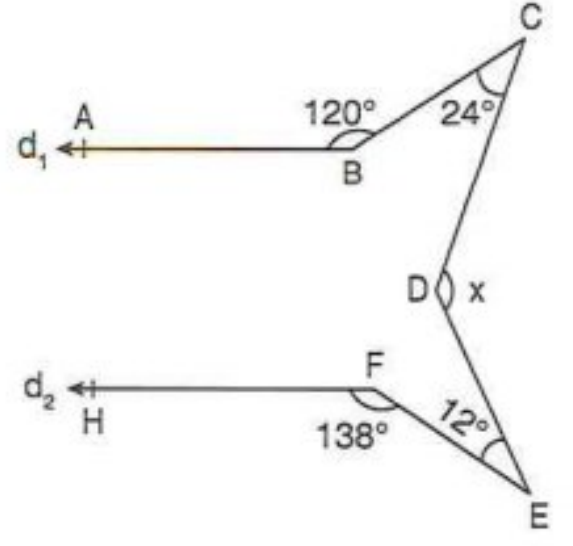
m(ABD) = m(DBE)
m(ACD) = m(DCE)
m(BAC) = 70°
m(BEC) = 120°
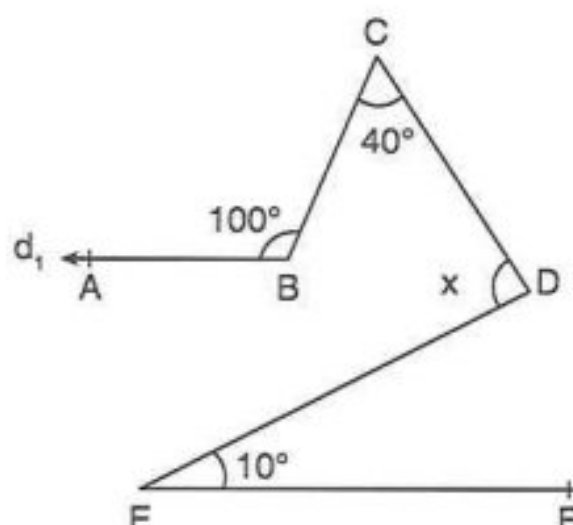
⇒ m(BDC) = ?

A) 75°   B) 80°   C) 85°   D) 90°   E) 95°

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°

10.

$d_1 \parallel d_2 \parallel d_3$
$m(\widehat{KAB}) = m(\widehat{BAC})$
$m(\widehat{ACL}) = m(\widehat{LCD})$
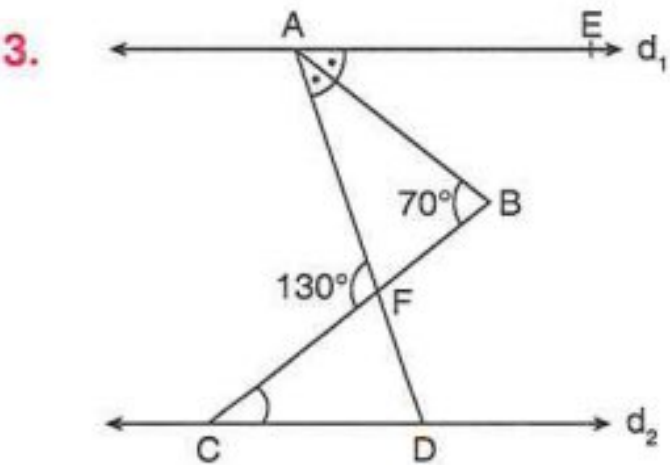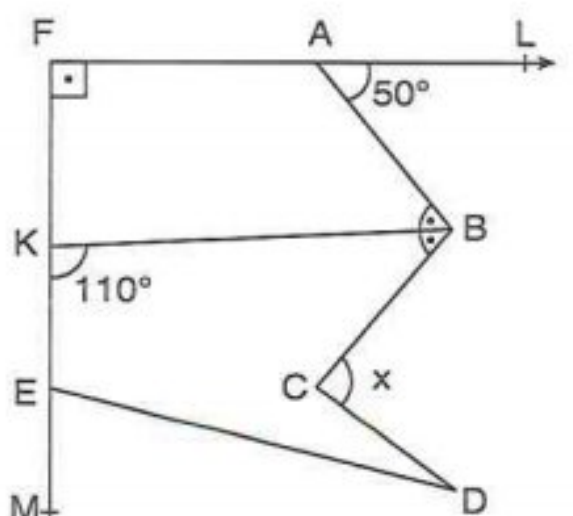$m(\widehat{ABC}) = 25°$

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

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

8.
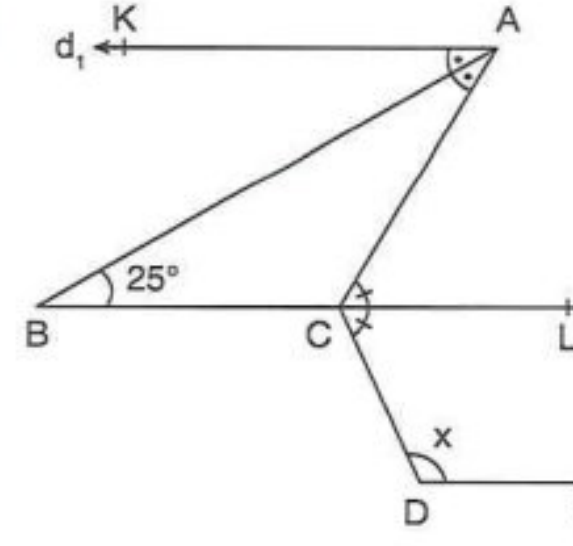

$d_1 \parallel d_2$
$m(\widehat{ABC}) = 100°$
$m(\widehat{BCD}) = 40°$
$m(\widehat{DEF}) = 10°$

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

A) 60°   B) 70°   C) 80°   D) 90°   E) 100°

11.

$[AK \parallel [CD$
$m(\widehat{LAK}) = 100°$
$m(\widehat{LBC}) = 140°$

$\Rightarrow m(\widehat{BCD}) = x = ?$
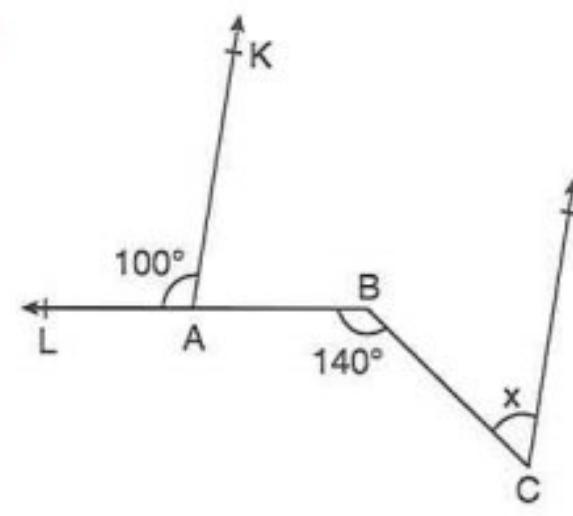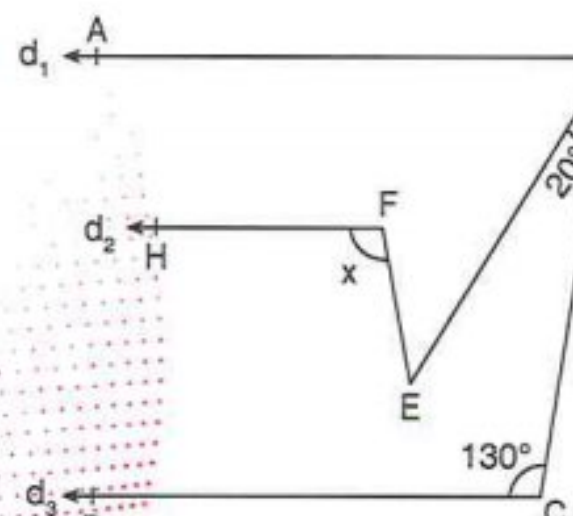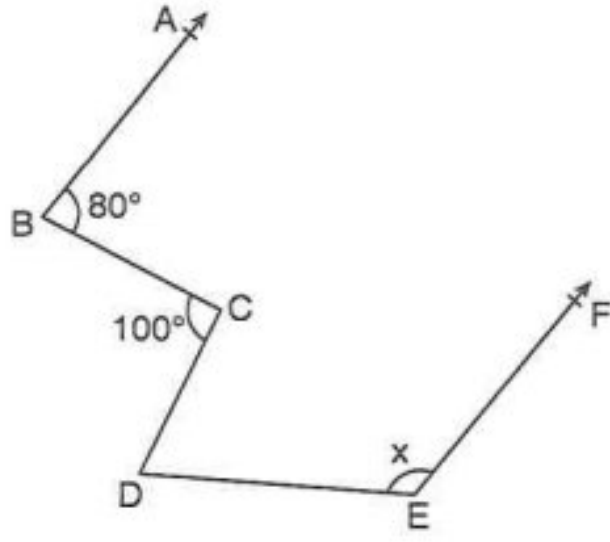
A) 40°   B) 50°   C) 60°   D) 70°   E) 80°

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°

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°

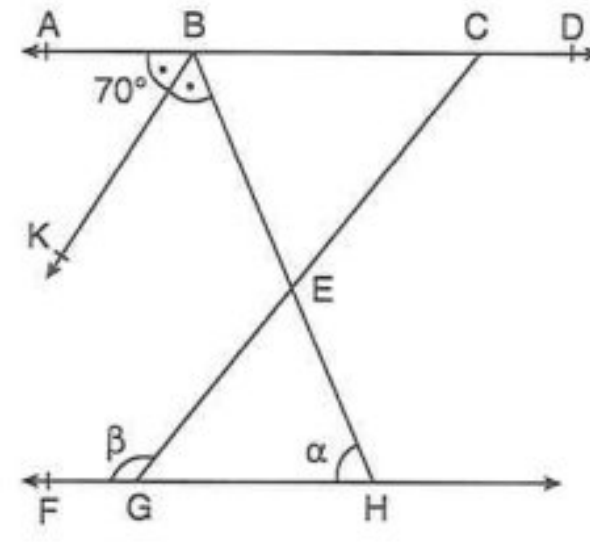| 1. C	2. C	3. A	4. B	5. D	6. E
7. E	8. B	9. C	10. A	11. C	12. A

1.

[BA // [EF
m(ABC) = 80°
m(BCD) = 100°
m(CDE) = 50°
m(DEF) = x

⇒ m(DEF) = x = ?

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

4.

AD // FH
[GC] ⊥ [BH]
m(ABK) = m(KBH) = 70°
m(BHF) = α
m(FGC) = β

⇒ α + β = ?

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

2.
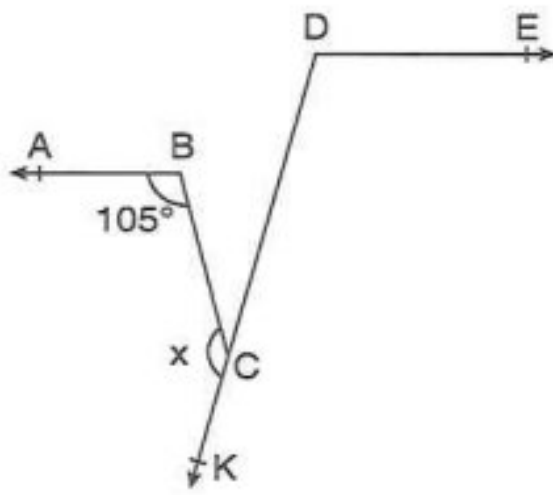
[BA // [DE
m(ABC) = 105°
m(KDE) = 120°

⇒ m(BCK) = x = ?

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

5.
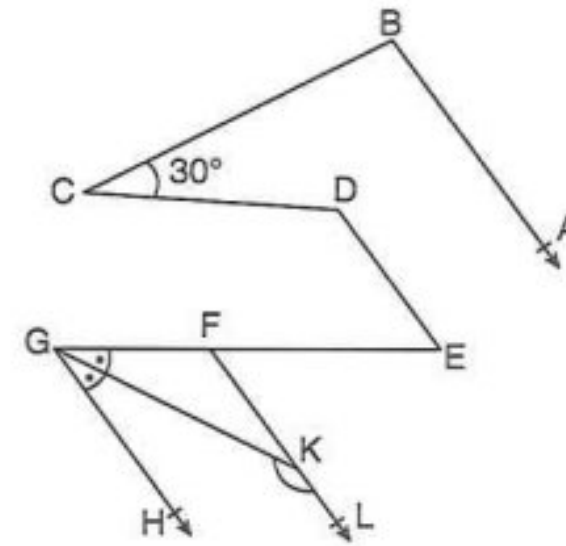
[BA // [DE] // [FL // [GH
m(EGK) = m(HGK)
m(BCD) = 30°
m(GKF) = 20°

⇒ m(ABC) = ?

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

3.
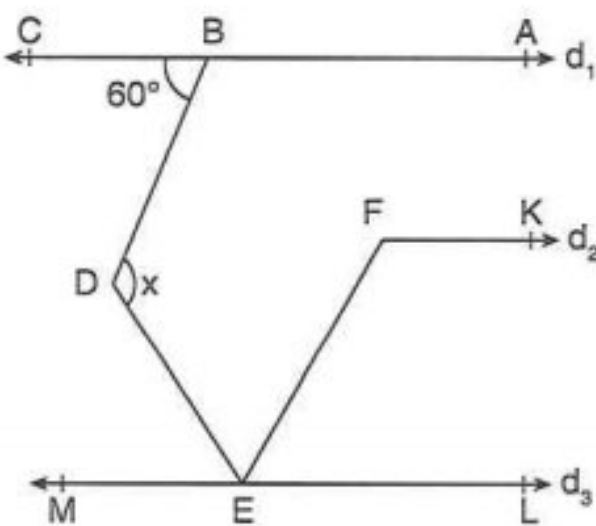
d_1 // d_2 // d_3
m(DEF) = m(FEL)
m(CBD) = 60°
m(EFK) = 110°

⇒ m(BDE) = ?
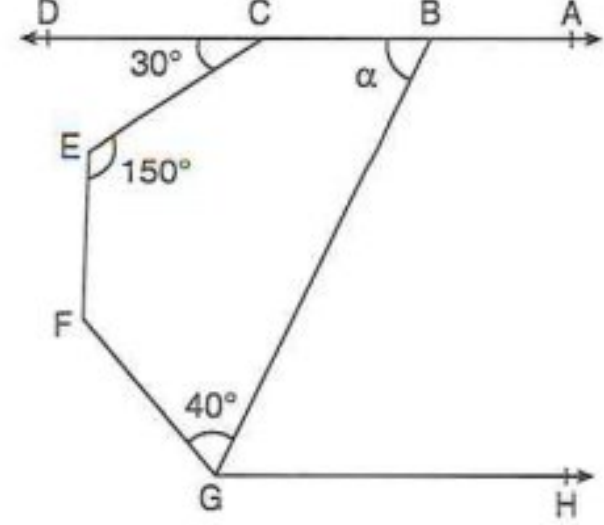
A) 95°   B) 100°   C) 110°   D) 115°   E) 120°

6.
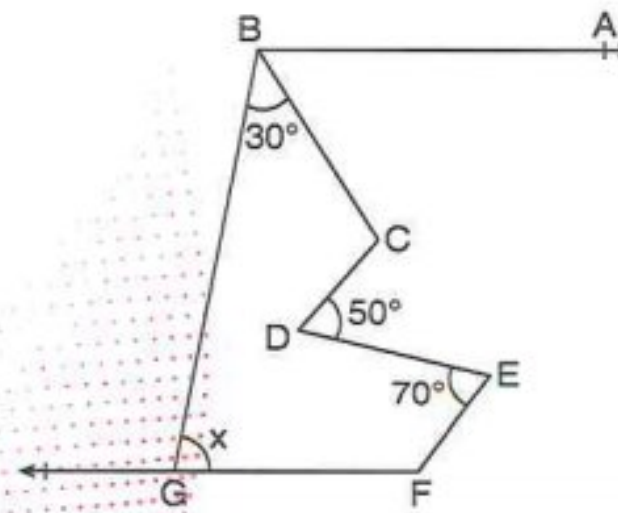
[BA // [FG
m(GBC) = 30°
m(BCD) = 80°
m(CDE) = 50°
m(DEF) = 70°
m(EFG) = 150°

⇒ m(BGF) = x = ?
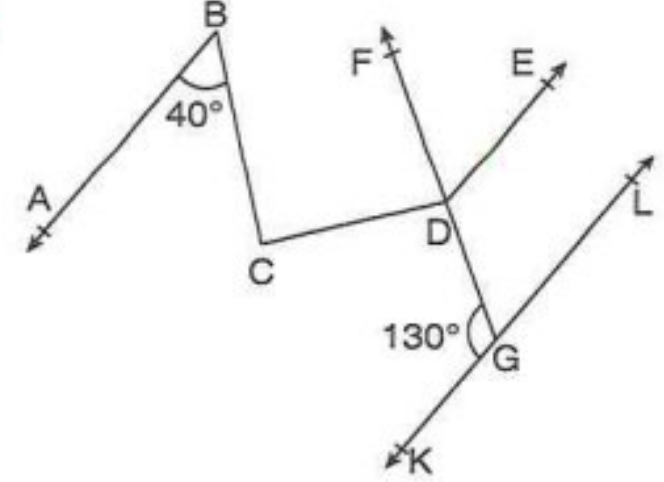
A) 45°   B) 60°   C) 65°   D) 70°   E) 80°

7.

AD // [GH
m(DĈE) = 30°
m(CÊF) = 150°
m(EF̂G) = 140°
m(FĜB) = 40°

⇒ m(DB̂G) = α = ?
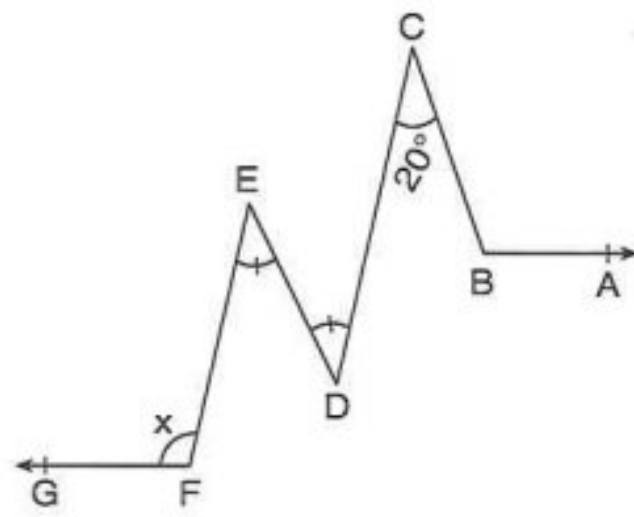
A) 40°   B) 45°   C) 60°   D) 70°   E) 75°

10.

[BA // [DE // KL
m(AB̂C) = 40°
m(BĈD) = 100°
m(KĜF) = 130°

⇒ m(CD̂F) = ?
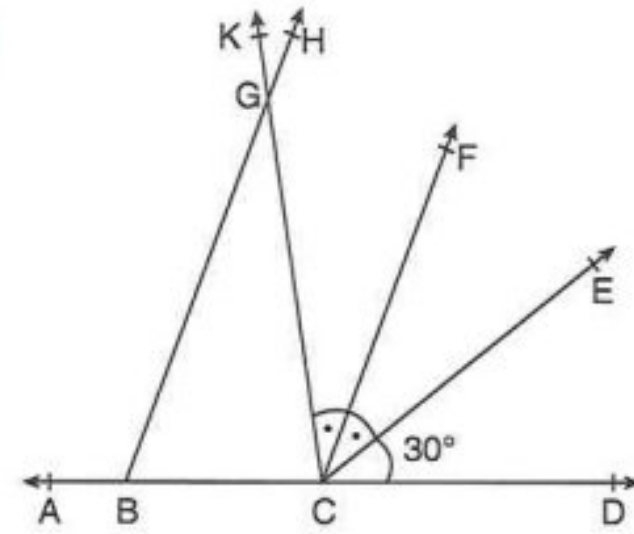
A) 50°   B) 60°   C) 70°   D) 80°   E) 90°

8.

[BA // [FG
m(FÊD) = m(ED̂C)
m(CB̂A) = 110°
m(DĈB) = 20°

⇒ m(GF̂E) = x = ?
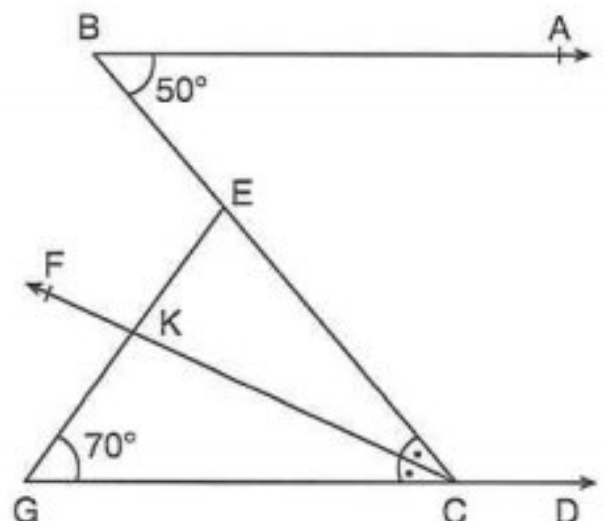
A) 70°   B) 90°   C) 110°   D) 130°   E) 150°

11.

[BH // [CF
m(KĈF) = m(FĈE)
m(EĈD) = 30°
m(AB̂H) = 100°

⇒ m(KĜH) = ?
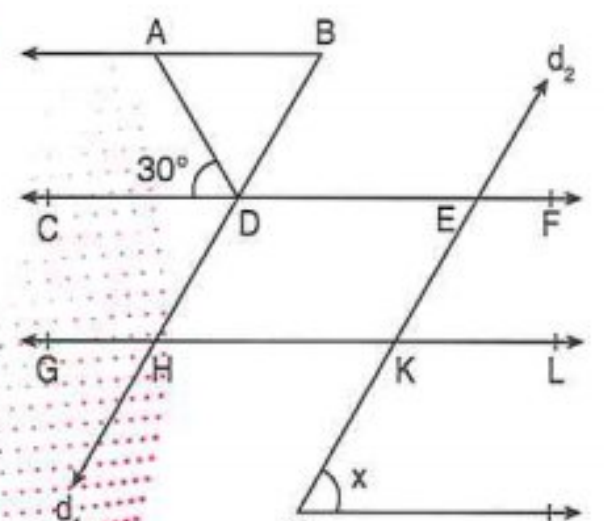
A) 40°   B) 50°   C) 60°   D) 70°   E) 80°

9.

[BA // [GD
m(BĈF) = m(FĈG)
m(AB̂C) = 50°
m(EĜD) = 70°

⇒ m(FK̂E) = ?

A) 60°   B) 75°   C) 80°   D) 85°   E) 90°

12.

d₁ // d₂
[BA // CF // GL // [MN
|ABI| = |ADI|
m(AD̂C) = 30°

⇒ m(EM̂N) = x = ?

A) 60°   B) 75°   C) 80°   D) 85°   E) 90°

< 30 >

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

المسوحة ضوئيا بـ CamScanner

2

ÜÇGENDE AÇI
ANGLES OF TRIANGLE

KONU KAVRAMA TESTİ
Thread Grip Test

ZİHİN HARİTASI
Mind Map

8 TEST
Tests

156 SORU
Questions

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.

$$m(\widehat{A}) = 90°$$

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

1.
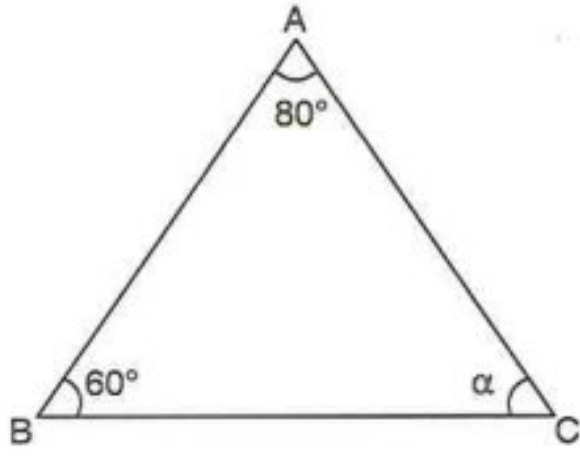
$m(B\widehat{A}C) = 80°$
$m(A\widehat{B}C) = 60°$

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

A) 30°   B) 40°   C) 50°   D) 60°   E) 70°

4.

$[ED] \perp [AC]$
$m(A\widehat{B}C) = 100°$
$m(D\widehat{E}C) = 70°$

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

A) 30°   B) 40°   C) 50°   D) 60°   E) 75°

2.
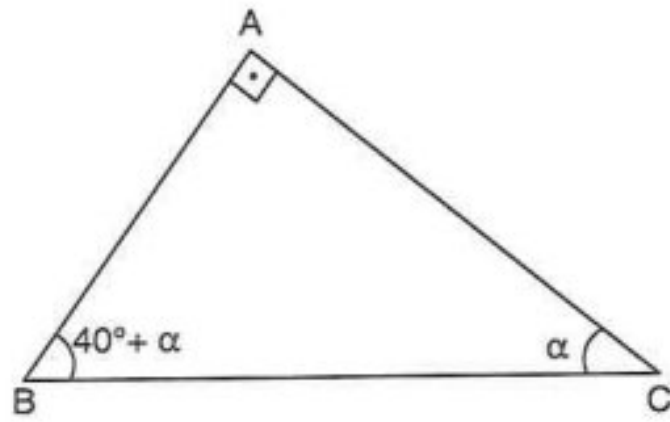
$[BA] \perp [AC]$
$m(C\widehat{B}A) = 40 + \alpha$

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

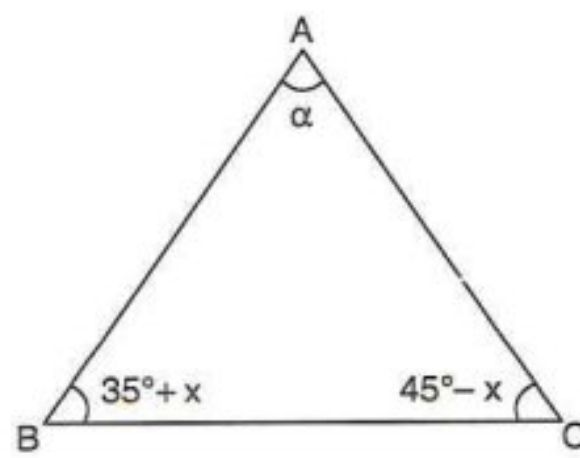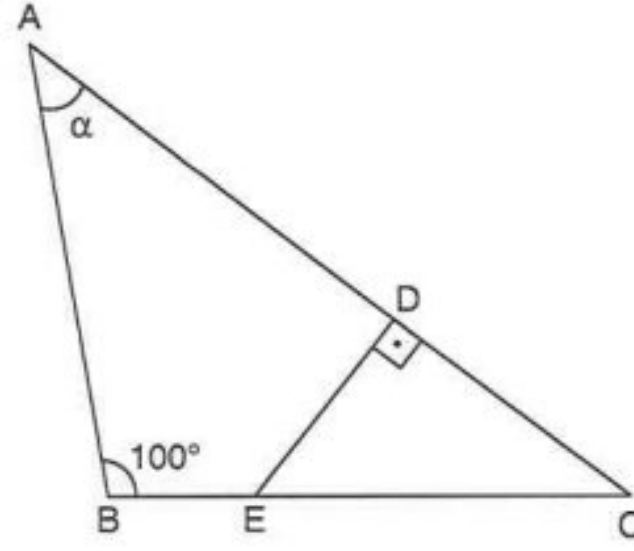A) 20°   B) 25°   C) 30°   D) 35°   E) 45°

5.

$m(D\widehat{A}C) = 120°$
$m(E\widehat{B}A) = 110°$

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

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

3.

$m(A\widehat{B}C) = 35° + x$
$m(A\widehat{C}B) = 45° - x$

$\Rightarrow m(B\widehat{A}C) = \alpha = ?$
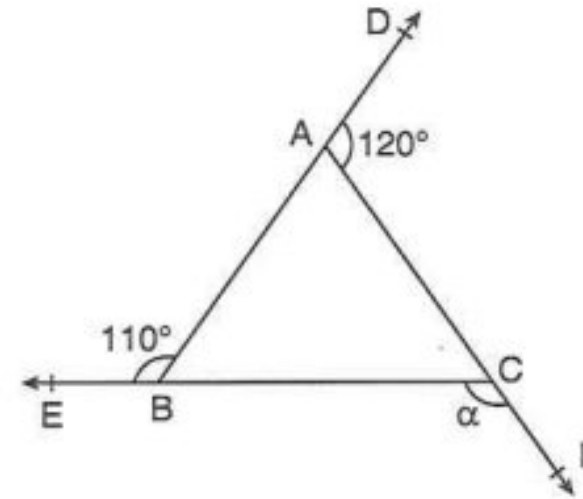
A) 80°   B) 90°   C) 100°   D) 110°   E) 115°

6.
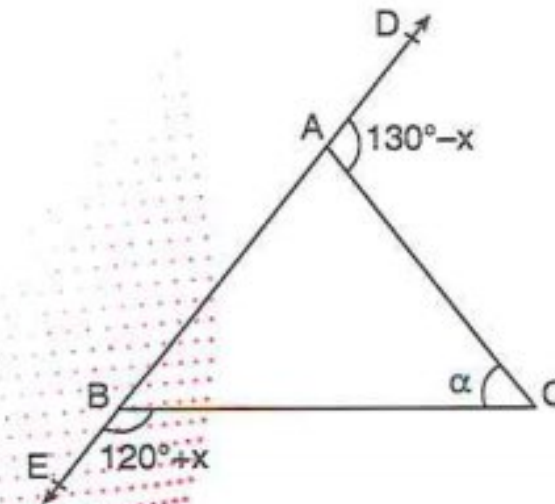
$m(D\widehat{A}C) = 130° - x$
$m(E\widehat{B}C) = 120° + x$

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

A) 50°   B) 60°   C) 70°   D) 80°   E) 90°

7.

$[AD \perp [AE$
$m(D\widehat{B}C) = 140°$

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

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

10.

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

$\Rightarrow 3\alpha = ?$

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

8.
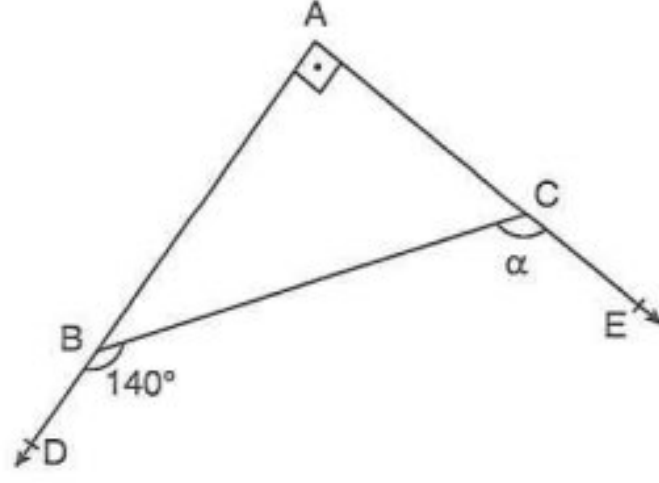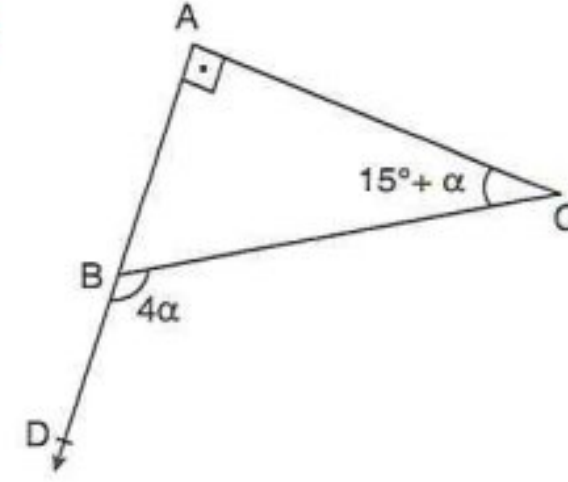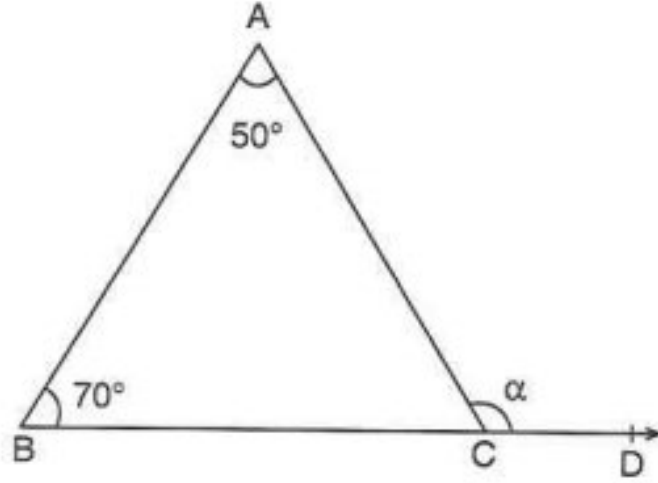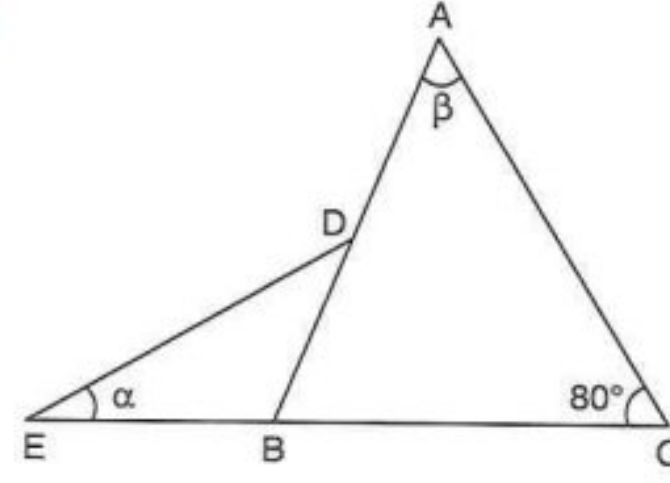
$m(B\widehat{A}C) = 50°$
$m(A\widehat{B}C) = 70°$

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

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

11.
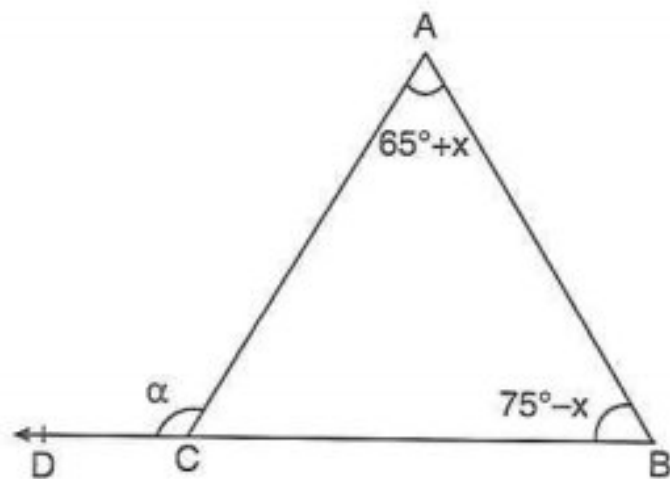
$m(A\widehat{C}B) = 80°$
$m(B\widehat{D}E) = 20°$
$m(B\widehat{A}C) = \beta$
$m(D\widehat{E}B) = \alpha$

$\Rightarrow \alpha + \beta = ?$
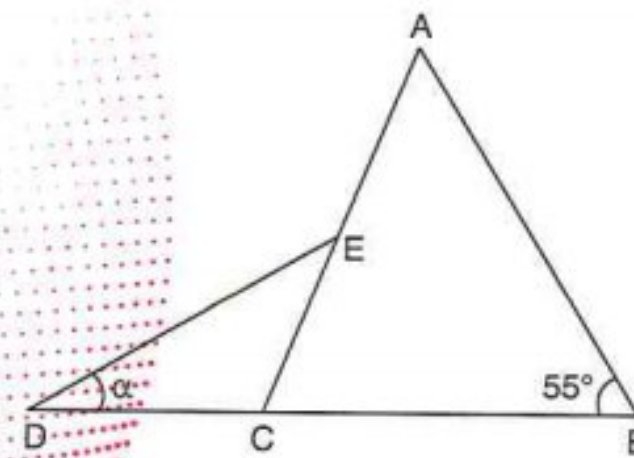
A) 60°   B) 70°   C) 80°   D) 90°   E) 100°

9.

$m(C\widehat{A}B) = 65° + x$
$m(A\widehat{B}C) = 75° - x$

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

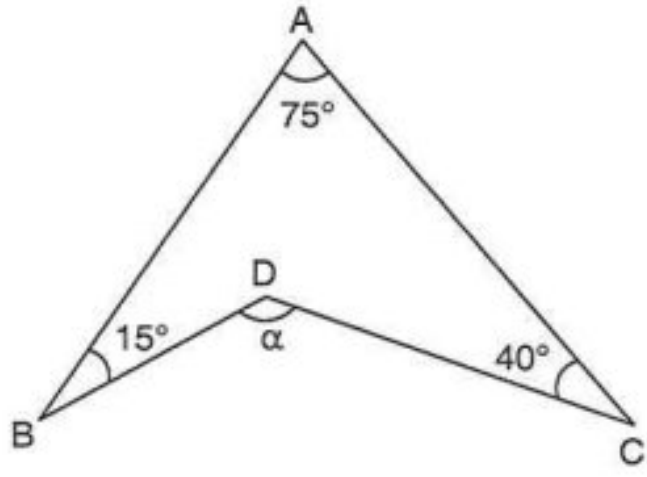A) 100°   B) 110°   C) 120°   D) 130°   E) 140°

12.

$m(C\widehat{A}B) = 85°$
$m(A\widehat{B}C) = 55°$
$m(D\widehat{E}C) = 10°$

$\Rightarrow m(E\widehat{D}C) = \alpha = ?$
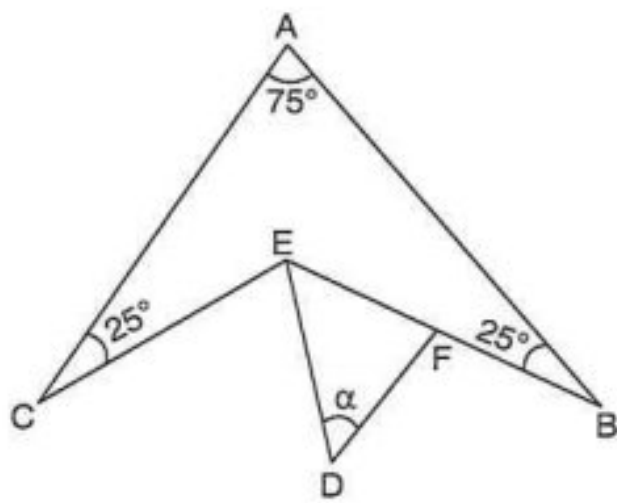
A) 20°   B) 30°   C) 40°   D) 50°   E) 60°

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

13.

$m(B\widehat{A}C) = 75°$
$m(A\widehat{B}D) = 15°$
$m(A\widehat{C}D) = 40°$

$\Rightarrow m(B\widehat{D}C) = \alpha = ?$
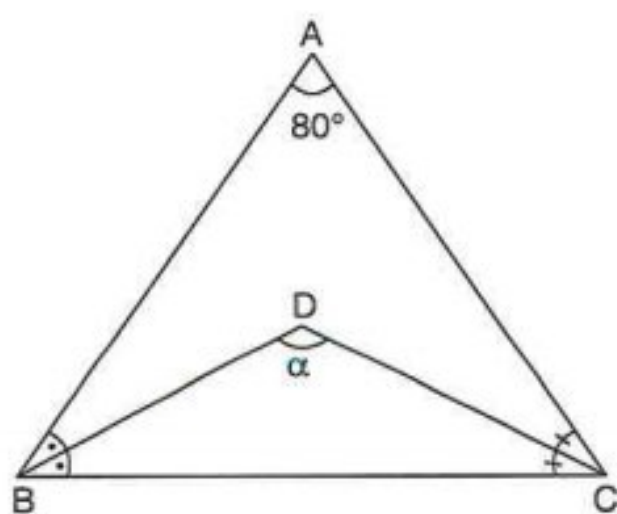
A) 110°   B) 120°   C) 130°   D) 140°   E) 150°

16.

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

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

A) 20°   B) 30°   C) 40°   D) 60°   E) 80°

14.

$m(C\widehat{A}B) = 75°$
$m(A\widehat{C}E) = 25°$
$m(A\widehat{B}F) = 25°$
$m(C\widehat{E}D) = 55°$
$m(E\widehat{F}D) = 80°$

$\Rightarrow m(E\widehat{D}F) = \alpha = ?$

A) 25°   B) 30°   C) 35°   D) 45°   E) 50°

17.

$[AB] \perp [BC]$
$m(B\widehat{A}D) = m(D\widehat{A}C)$
$m(A\widehat{C}D) = m(D\widehat{C}B)$

$\Rightarrow m(A\widehat{D}C) = \alpha = ?$
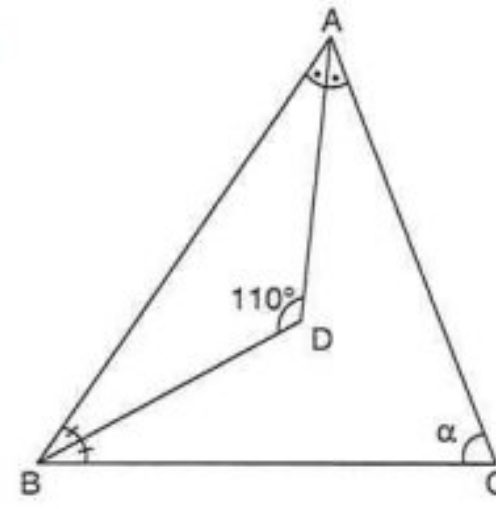
A) 95°   B) 110°   C) 115°   D) 125°   E) 135°

15.

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

$\Rightarrow m(B\widehat{D}C) = \alpha = ?$
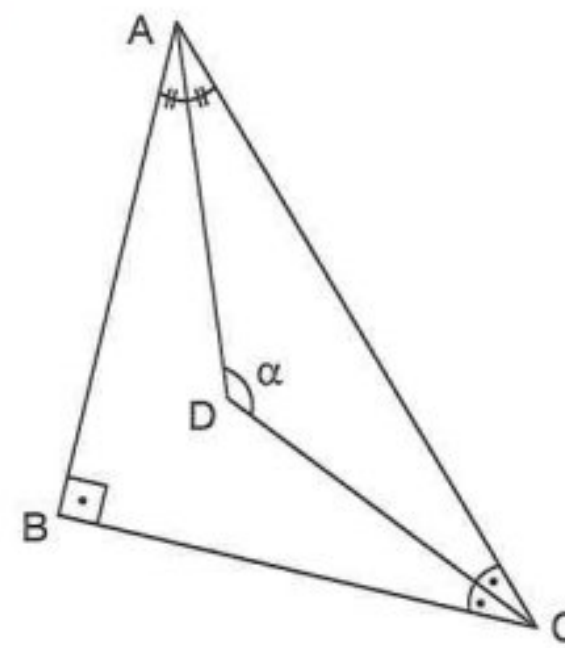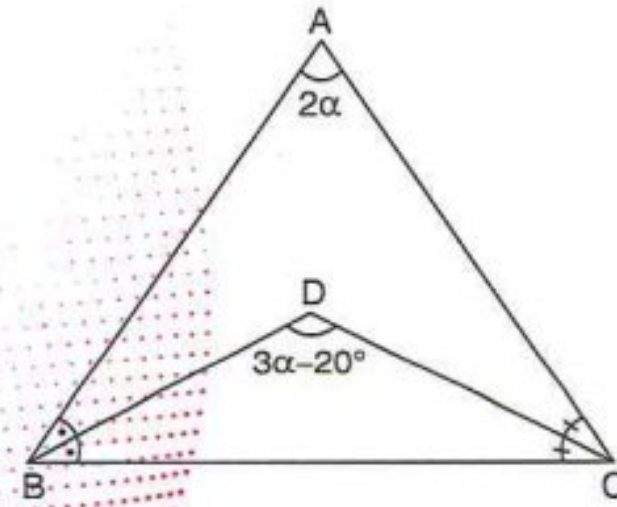
A) 90°   B) 105°   C) 120°   D) 130°   E) 150°

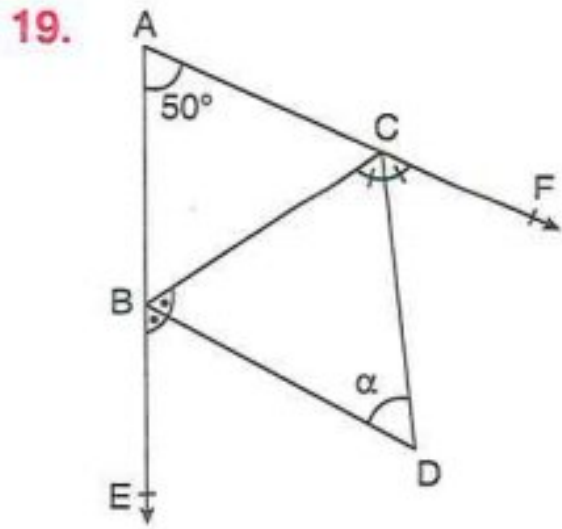**18.**

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

$\Rightarrow \alpha = ?$

A) 40°   B) 55°   C) 60°   D) 75°   E) 80°
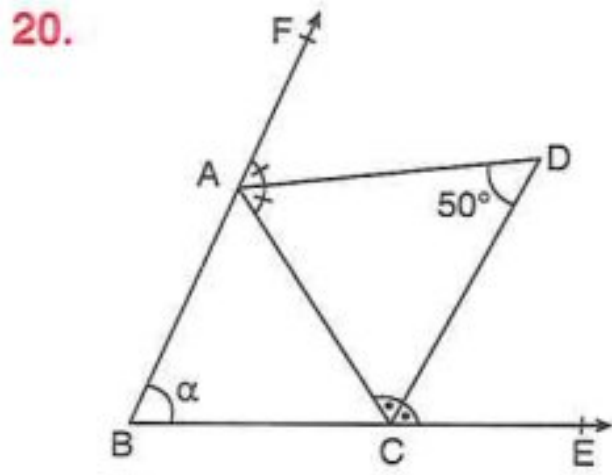
19.

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

$\Rightarrow m(B\widehat{D}C) = \alpha = ?$
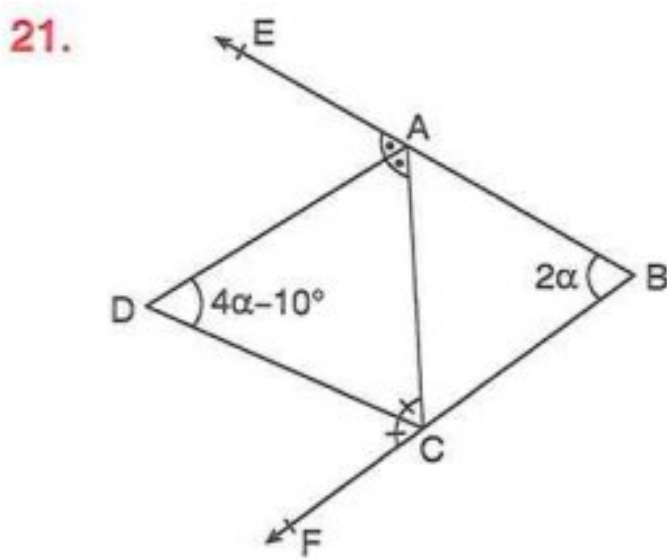
A) 35°   B) 40°   C) 45°   D) 55°   E) 65°

22.

$m(A\widehat{B}D) = m(D\widehat{B}C)$
$m(A\widehat{C}D) = m(D\widehat{C}B)$
$m(D\widehat{A}C) = 35°$

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

A) 25°   B) 35°   C) 45°   D) 50°   E) 60°

23.

$m(B\widehat{A}D) = m(D\widehat{A}C) = 45°$
$m(A\widehat{B}D) = m(D\widehat{B}C) = 30°$

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

A) 5°   B) 15°   C) 20°   D) 25°   E) 30°

20.

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

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

A) 70°   B) 80°   C) 90°   D) 100°   E) 110°

21.

$m(E\widehat{A}D) = m(D\widehat{A}C)$
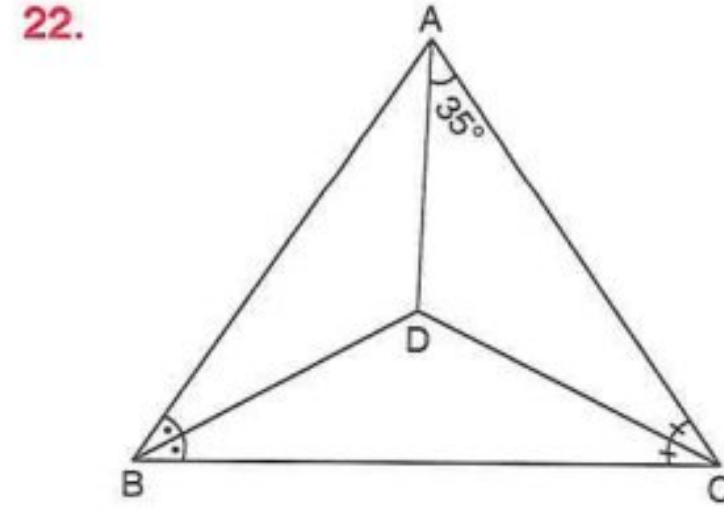$m(A\widehat{C}D) = m(D\widehat{C}F)$
$m(E\widehat{B}F) = 2\alpha$
$m(A\widehat{D}C) = 4\alpha - 10°$

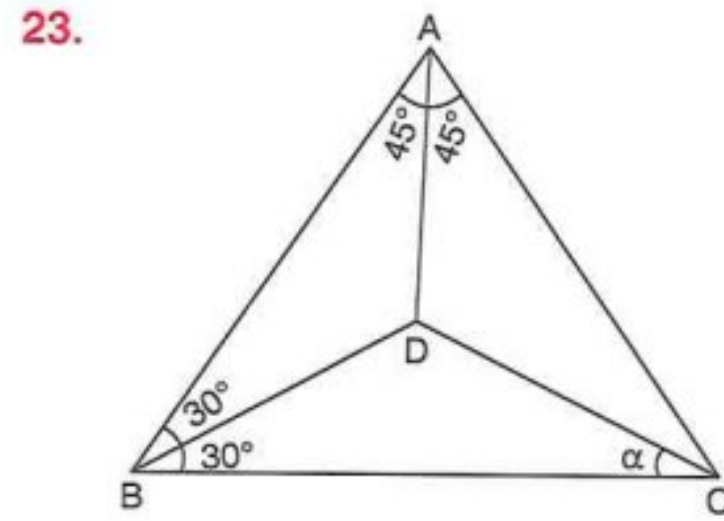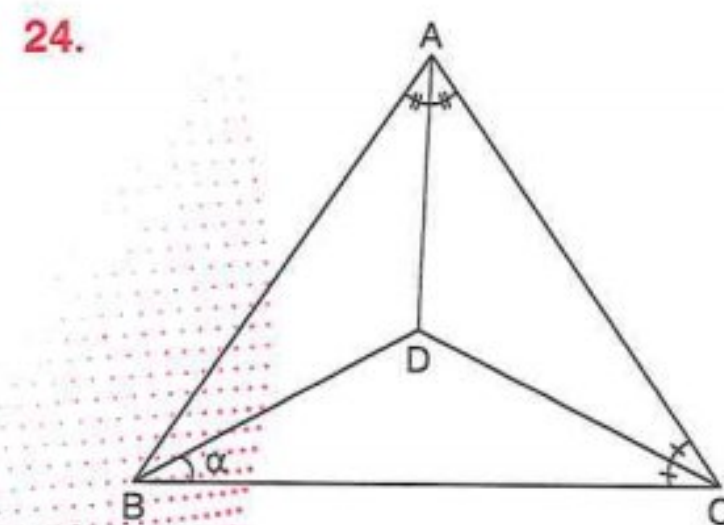$\Rightarrow \alpha = ?$

A) 20°   B) 30°   C) 45°   D) 50°   E) 65°
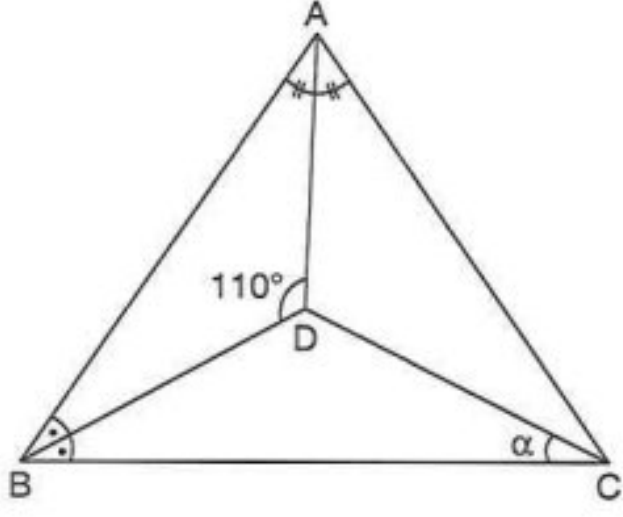
24.

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

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

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

25.

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

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

A) 10° B) 20° C) 30° D) 40° E) 60°

28.
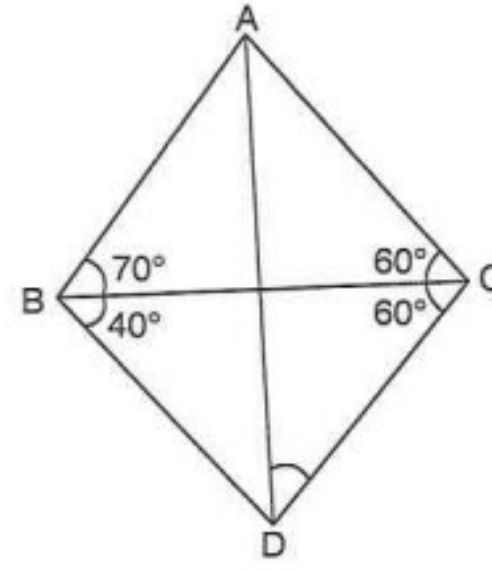
$m(A\widehat{C}B) = m(B\widehat{C}D) = 60°$
$m(A\widehat{B}C) = 70°$
$m(C\widehat{B}D) = 40°$

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

A) 30° B) 40° C) 50° D) 60° E) 80°

26.
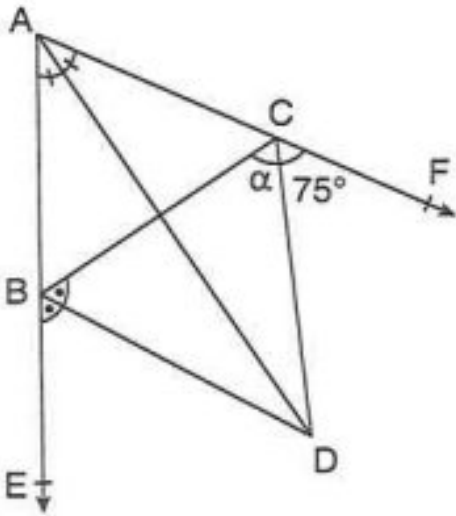
$m(B\widehat{A}D) = m(D\widehat{A}F)$
$m(E\widehat{B}D) = m(D\widehat{B}C)$
$m(D\widehat{C}F) = 75°$

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

A) 30° B) 35° C) 45° D) 65° E) 75°

29.
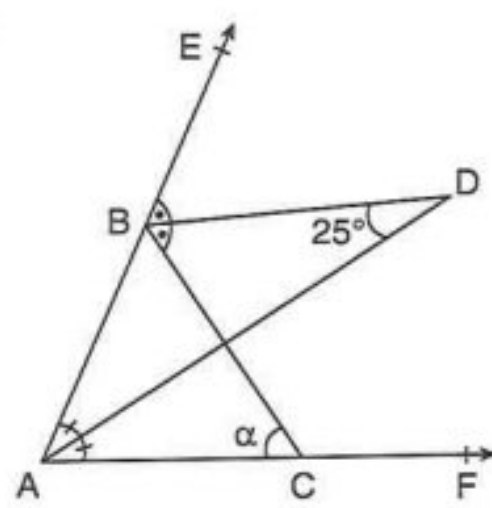
$m(E\widehat{B}D) = m(D\widehat{B}C)$
$m(B\widehat{A}D) = m(D\widehat{A}F)$
$m(B\widehat{D}A) = 25°$

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

A) 12.5° B) 25° C) 45° D) 50° E) 75°

27.
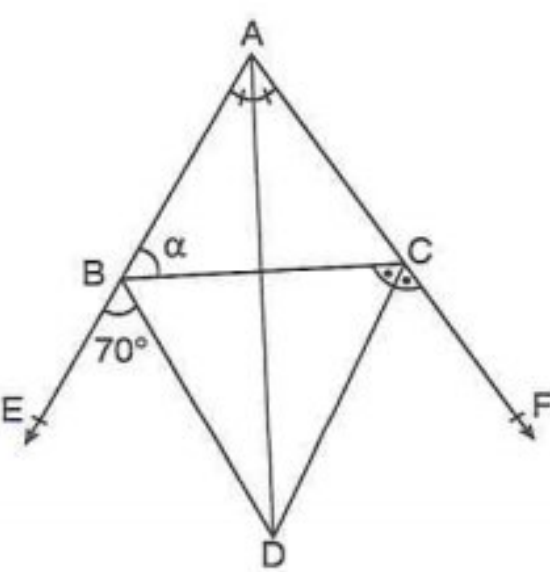
$m(B\widehat{A}D) = m(D\widehat{A}F)$
$m(B\widehat{C}D) = m(F\widehat{C}D)$
$m(E\widehat{B}D) = 70°$

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

A) 30° B) 40° C) 50° D) 60° E) 70°

30.
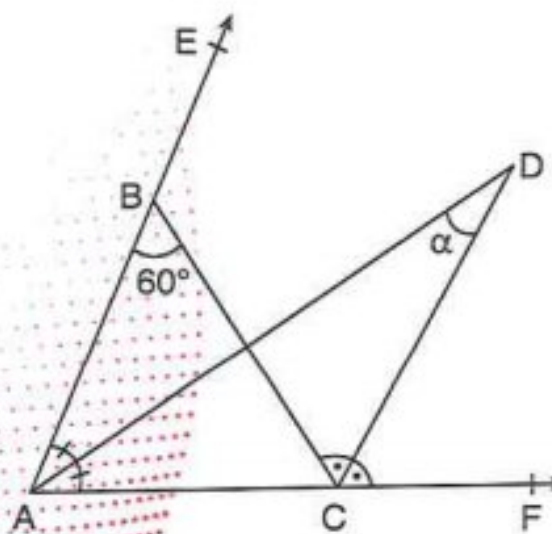
$m(E\widehat{A}D) = m(D\widehat{A}F)$
$m(B\widehat{C}D) = m(D\widehat{C}F)$
$m(A\widehat{B}C) = 60°$

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

A) 20° B) 30° C) 50° D) 90° E) 120°