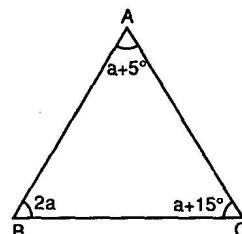


ÜÇGENDE AÇILAR

ÜÇGENDE AÇILAR

Konu-Kavrama Testi - I

1.



ABC bir üçgen

$$m(\widehat{BAC}) = a + 5^\circ$$

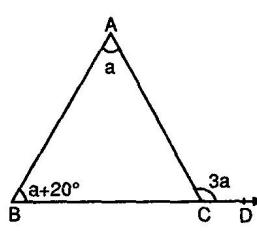
$$m(\widehat{ACB}) = a + 15^\circ$$

$$m(\widehat{ABC}) = 2a$$

Yukarıdaki verilere göre, a kaç derecedir?

- A) 40 B) 45 C) 50 D) 55 E) 60

2.



ABC bir üçgen

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

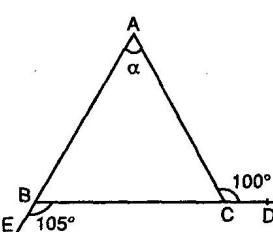
$$m(\widehat{ABC}) = a + 20^\circ$$

$$m(\widehat{ACD}) = 3a$$

Yukarıdaki verilere göre, $m(\widehat{ABC})$ kaç derecedir?

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

3.



ABC bir üçgen

A, B, E doğrusal

B, C, D doğrusal

$$m(\widehat{ACD}) = 100^\circ$$

$$m(\widehat{EBC}) = 105^\circ$$

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

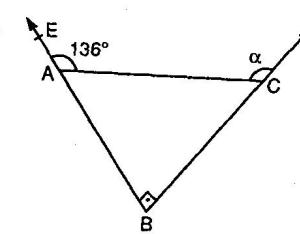
Yukarıdaki verilere göre, $m(\widehat{BAC}) = \alpha$ kaç derecedir?

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

4. Bir üçgenin bir dış açısının ölçüsü 124° olduğuna göre, diğer dış açıların ölçüleri toplamı kaç derecedir?

- A) 256 B) 246 C) 236 D) 226 E) 224

5.



ABC bir dik üçgen

B, A, E doğrusal

B, C, D doğrusal

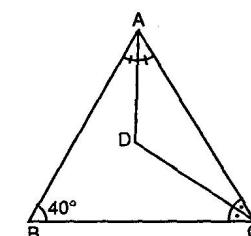
$$m(\widehat{EAC}) = 136^\circ$$

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

Yukarıdaki verilere göre, $m(\widehat{ACD}) = \alpha$ kaç derecedir?

- A) 144 B) 134 C) 130 D) 124 E) 120

6.



ABC bir üçgen

[AD] ve [CD],

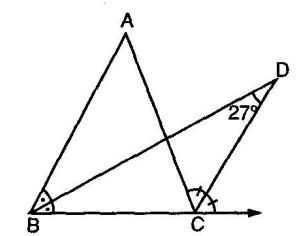
İç açıortaylar

$$m(\widehat{ABC}) = 40^\circ$$

Yukarıdaki verilere göre, $m(\widehat{ADC}) = x$ kaç derecedir?

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

7.



ABC bir üçgen

[BD], iç açıortay

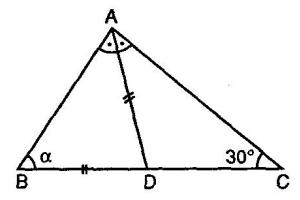
[CD], dış açıortay

$$m(\widehat{BDC}) = 27^\circ$$

Yukarıdaki verilere göre, $m(\widehat{BAC})$ kaç derecedir?

- A) 54 B) 48 C) 45 D) 36 E) 30

8.



ABC bir üçgen

[AD], açıortay

$$|AD| = |BD|$$

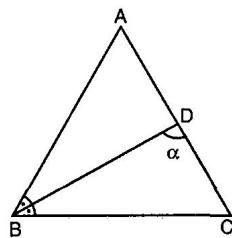
$$m(\widehat{ACB}) = 30^\circ$$

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

Yukarıdaki verilere göre, α kaç derecedir?

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

9.

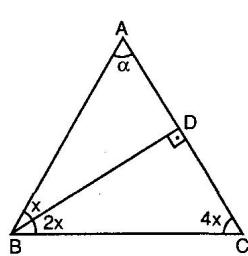


ABC bir eşkenar üçgen
 $[BD]$, açıortay
 $m(\widehat{BDC}) = \alpha$

Yukarıdaki verilere göre, α kaç derecedir?

- A) 120 B) 100 C) 90 D) 80 E) 70

10.

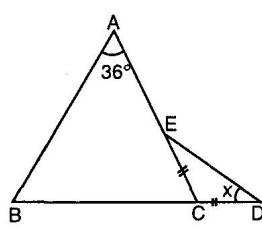


ABC bir üçgen
 $[BD] \perp [AC]$
 $m(\widehat{ABD}) = x$
 $m(\widehat{DBC}) = 2x$
 $m(\widehat{ACB}) = 4x$
 $m(\widehat{BAC}) = \alpha$

Yukarıdaki verilere göre, α kaç derecedir?

- A) 75 B) 60 C) 45 D) 30 E) 15

13.

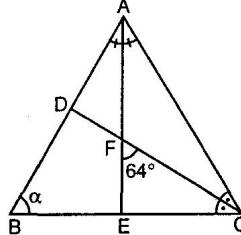


ABC bir
 ikizkenar üçgen
 $|AB| = |AC|$
 $|EC| = |CD|$
 $m(\widehat{BAC}) = 36^\circ$
 $m(\widehat{BDE}) = x$

Yukarıdaki verilere göre, x kaç derecedir?

- A) 18 B) 24 C) 36 D) 45 E) 54

14.



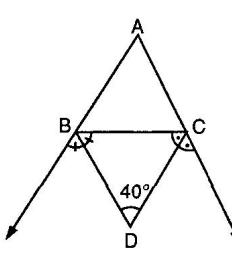
ABC bir üçgen
 $[AE]$ ve $[CD]$,
 iç açıortaylar
 $m(\widehat{EFC}) = 64^\circ$
 $m(\widehat{ABC}) = \alpha$

Yukarıdaki verilere göre, α kaç derecedir?

- A) 52 B) 50 C) 45 D) 42 E) 32

GÜVENDER YAYINLARI

11.

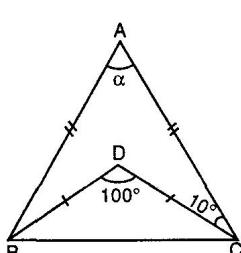


ABC bir üçgen
 $[BD]$ ve $[CD]$,
 dış açıortaylar
 $m(\widehat{BDC}) = 40^\circ$

Yukarıdaki verilere göre, $m(\widehat{BAC})$ kaç derecedir?

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

15.

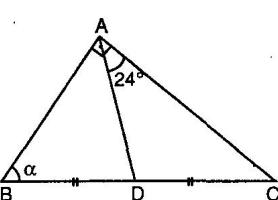


ABC bir
 ikizkenar üçgen
 $|AB| = |AC|$
 $|BD| = |DC|$
 $m(\widehat{ACD}) = 10^\circ$
 $m(\widehat{BDC}) = 100^\circ$

Yukarıdaki verilere göre, $m(\widehat{BAC}) = \alpha$ kaç derecedir?

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

12.

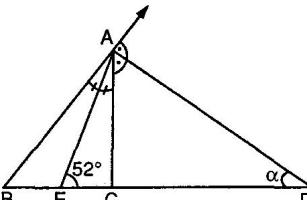


BAC bir dik üçgen
 $|BD| = |DC|$
 $m(\widehat{DAC}) = 24^\circ$
 $m(\widehat{ABC}) = \alpha$

Yukarıdaki verilere göre, α kaç derecedir?

- A) 76 B) 66 C) 60 D) 56 E) 46

16.



ABC bir üçgen
 $[AE]$, iç açıortay
 $[AD]$, dış açıortay
 $m(\widehat{AED}) = 52^\circ$
 $m(\widehat{ADB}) = \alpha$

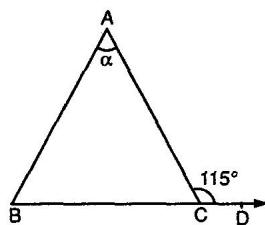
Yukarıdaki verilere göre, α kaç derecedir?

- A) 48 B) 45 C) 38 D) 30 E) 28

ÜÇGENDE AÇILAR

Konu Kavrama Testi - 2

1.

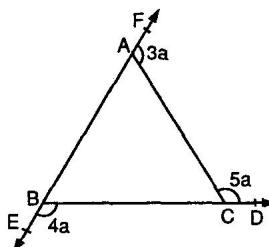


ABC bir ikizkenar üçgen
B, C, D doğrusal
 $|AB| = |AC|$
 $m(\widehat{ACD}) = 115^\circ$
 $m(\widehat{BAC}) = \alpha$

Yukarıdaki verilere göre, $m(\widehat{BAC}) = \alpha$ kaç derecedir?

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

2.

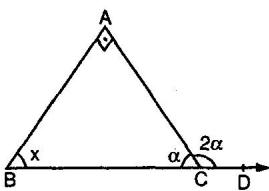


ABC bir üçgen
 $m(\widehat{FAC}) = 3a$
 $m(\widehat{EBC}) = 4a$
 $m(\widehat{ACD}) = 5a$

Yukarıdaki verilere göre, α kaç derecedir?

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

3.

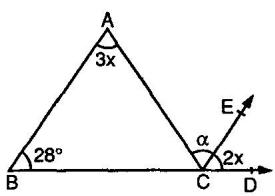


BAC bir dik üçgen
 $m(\widehat{ACB}) = \alpha$
 $m(\widehat{ACD}) = 2\alpha$
 $m(\widehat{ABD}) = x$

Yukarıdaki verilere göre, $m(\widehat{ABD}) = x$ kaç derecedir?

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

4.

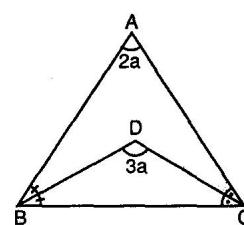


ABC bir üçgen
 $[AB] \parallel [CE]$
 $m(\widehat{ABD}) = 28^\circ$
 $m(\widehat{BAC}) = 3x$
 $m(\widehat{ECD}) = 2x$
 $m(\widehat{ACE}) = x$

Yukarıdaki verilere göre, $m(\widehat{ACE}) = x$ kaç derecedir?

- A) 14 B) 28 C) 42 D) 56 E) 70

5.

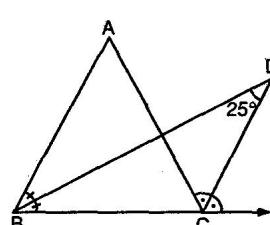


ABC bir üçgen
 $[BD]$ ve $[CD]$,
iç açıortaylar
 $m(\widehat{BAC}) = 2a$
 $m(\widehat{BDC}) = 3a$

Yukarıdaki verilere göre, a kaç derecedir?

- A) 135 B) 120 C) 90 D) 75 E) 45

6.



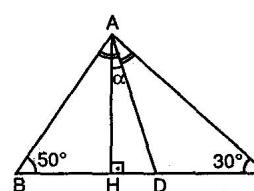
ABC bir üçgen
 $[BD]$, iç açıortay
 $[CD]$, dış açıortay
 $m(\widehat{BDC}) = 25^\circ$
 $m(\widehat{ABC}) = x$
 $m(\widehat{ACB}) = y$

Yukarıdaki verilere göre, $x + y$ toplamı kaç derecedir?

- A) 155 B) 140 C) 135 D) 130 E) 120

GÜVENİDER YAZINLARI

7.

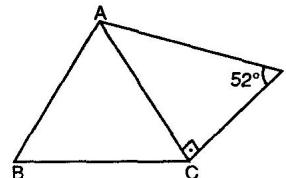


ABC bir üçgen
 $[AD]$, açıortay
 $[AH] \perp [BC]$
 $m(\widehat{ABC}) = 50^\circ$
 $m(\widehat{ACB}) = 30^\circ$
 $m(\widehat{HAD}) = \alpha$

Yukarıdaki verilere göre, α kaç derecedir?

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

8.

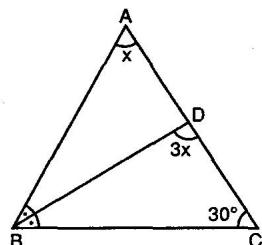


ABC bir eşkenar üçgen
 $[AC] \perp [CD]$
 $m(\widehat{ADC}) = 52^\circ$

Yukarıdaki verilere göre, $m(\widehat{BAD})$ kaç derecedir?

- A) 118 B) 112 C) 108 D) 98 E) 90

9.

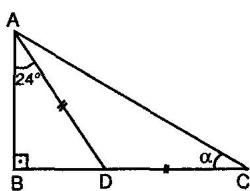


ABC bir üçgen
 $[BD]$, açıortay
 $m(\widehat{ACB}) = 30^\circ$
 $m(\widehat{BAC}) = x$
 $m(\widehat{BDC}) = 3x$

Yukarıdaki verilere göre, x kaç derecedir?

- A) 15 B) 30 C) 40 D) 45 E) 50

10.

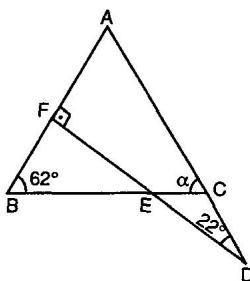


ABC bir dik üçgen
 $|AD| = |DC|$
 $m(\widehat{BAD}) = 24^\circ$
 $m(\widehat{ACB}) = \alpha$

Yukarıdaki verilere göre, α kaç derecedir?

- A) 43 B) 40 C) 36 D) 33 E) 23

11.

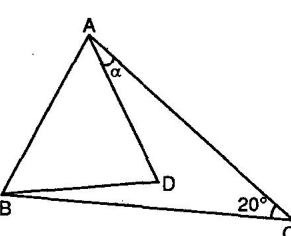


ABC bir üçgen
 $[DF] \perp [AB]$
 $m(\widehat{ACB}) = 62^\circ$
 $m(\widehat{ADF}) = 22^\circ$
 $m(\widehat{ACB}) = \alpha$

Yukarıdaki verilere göre, α kaç derecedir?

- A) 62 B) 60 C) 55 D) 52 E) 50

12.

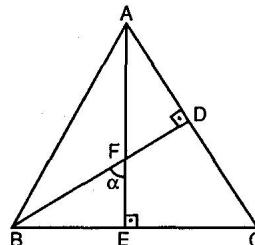


ABC bir ikizkenar üçgen
 ABD bir eşkenar üçgen
 $|AC| = |BC|$
 $m(\widehat{ACB}) = 20^\circ$
 $m(\widehat{CAD}) = \alpha$

Yukarıdaki verilere göre, α kaç derecedir?

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

13.

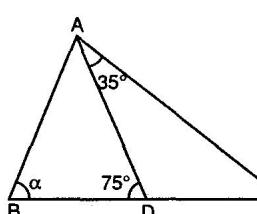


ABC bir eşkenar üçgen
 $[BD] \perp [AC]$
 $[AE] \perp [BC]$
 $m(\widehat{BFE}) = \alpha$

Yukarıdaki verilere göre, α kaç derecedir?

- A) 30 B) 45 C) 60 D) 75 E) 80

14.

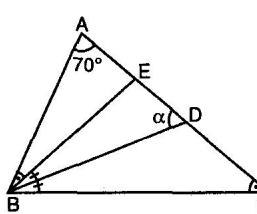


ABC bir ikizkenar üçgen
 $|AC| = |BC|$
 $m(\widehat{CAD}) = 35^\circ$
 $m(\widehat{ADB}) = 75^\circ$
 $m(\widehat{ABC}) = \alpha$

Yukarıdaki verilere göre, α kaç derecedir?

- A) 75 B) 70 C) 65 D) 60 E) 40

15.

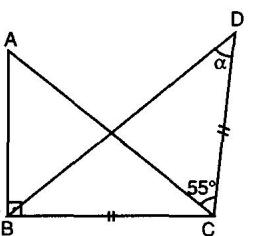


ABC bir üçgen
 $m(\widehat{ABE}) = m(\widehat{ACB})$
 $m(\widehat{EBD}) = m(\widehat{DBC})$
 $m(\widehat{BAC}) = 70^\circ$
 $m(\widehat{ADB}) = \alpha$

Yukarıdaki verilere göre, α kaç derecedir?

- A) 55 B) 50 C) 45 D) 40 E) 35

16.



ABC bir ikizkenar dik üçgen
 $|BC| = |CD|$
 $m(\widehat{ACD}) = 55^\circ$
 $m(\widehat{BDC}) = \alpha$

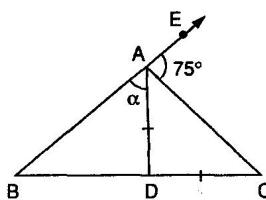
Yukarıdaki verilere göre, α kaç derecedir?

- A) 50 B) 45 C) 40 D) 35 E) 30

ÜÇGENDE AÇILAR

Konu Uygulama Testi - 1

1.

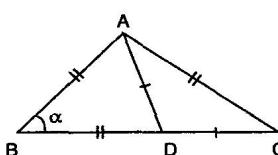


ABC bir üçgen
 $|AD| = |DC|$
 $m(\widehat{B}) = 2m(\widehat{C})$
 $m(\widehat{CAE}) = 75^\circ$

Yukarıdaki verilere göre, $m(\widehat{BAD}) = \alpha$ kaç derecedir?

- A) 40 B) 50 C) 60 D) 75 E) 80

2.

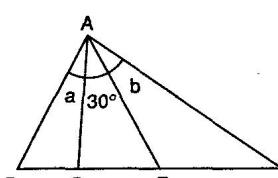


ABC bir üçgen
 $|AB| = |AC| = |BD|$
 $|AD| = |DC|$

Yukarıdaki verilere göre, $m(\widehat{ABC}) = \alpha$ kaç derecedir?

- A) 54 B) 48 C) 36 D) 24 E) 18

3.

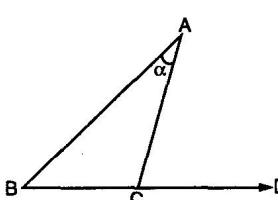


ABC bir üçgen
 $|AB| = |BE|$
 $|AC| = |CD|$
 $m(\widehat{DAE}) = 30^\circ$
 $m(\widehat{BAD}) = a$
 $m(\widehat{EAC}) = b$
 $a - b = 20^\circ$

Yukarıdaki verilere göre, a kaç derecedir?

- A) 65 B) 55 C) 45 D) 35 E) 25

4.

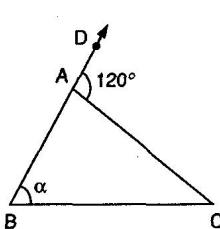


ABC bir üçgen
 $m(\widehat{ACD}) = 34^\circ 11' 12''$
 $m(\widehat{ABC}) = 23^\circ 13' 25''$

Yukarıdaki verilere göre, $m(\widehat{BAC}) = \alpha$ kaç derece, kaç dakika, kaç saniyedir?

- A) $10^\circ 57' 47''$ B) $10^\circ 58' 47''$
 C) $11^\circ 57' 47''$ D) $10^\circ 57' 37''$
 E) $12^\circ 48' 57''$

5.

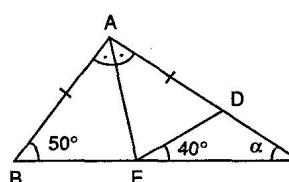


ABC bir üçgen
 $|AC| = 2|AB|$
 $m(\widehat{CAD}) = 120^\circ$

Yukarıdaki verilere göre, $m(\widehat{ABC}) = \alpha$ kaç derecedir?

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

6.



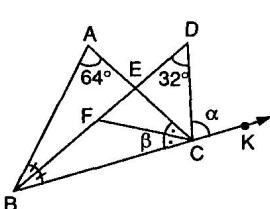
ABC bir üçgen
 $[AE]$, açıortay
 $|AB| = |AD|$
 $m(\widehat{CED}) = 40^\circ$
 $m(\widehat{ABC}) = 50^\circ$

Yukarıdaki verilere göre, $m(\widehat{BCA}) = \alpha$ kaç derecedir?

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

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7.

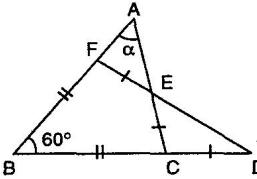


ABC bir üçgen
 $[BD]$ ve $[CF]$ açıortaylar
 B, C, K doğrusal
 $m(\widehat{BAC}) = 64^\circ$
 $m(\widehat{BDC}) = 32^\circ$
 $m(\widehat{DCK}) = \alpha$
 $m(\widehat{BCF}) = \beta$

Yukarıdaki verilere göre, $\alpha + \beta$ toplamı kaç derecedir?

- A) 70 B) 80 C) 90 D) 96 E) 100

8.



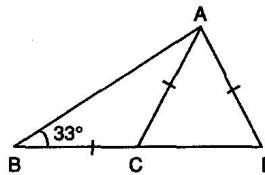
ABC ve BDF birer üçgen
 $|BF| = |BC|$
 $|FE| = |EC| = |CD|$
 $m(\widehat{ABD}) = 60^\circ$

Yukarıdaki verilere göre, $m(\widehat{BAC}) = \alpha$ kaç derecedir?

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



9.

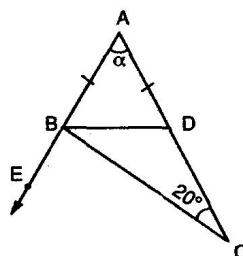


ABD bir üçgen
 $|BC| = |CA| = |AD|$
 $m(\widehat{ABD}) = 33^\circ$

Yukarıdaki verilere göre, $m(\widehat{BAD})$ kaç derecedir?

- A) 48 B) 66 C) 81 D) 91 E) 101

10.

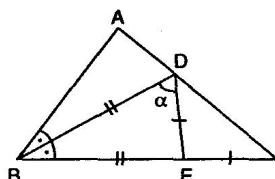


ABC bir üçgen
 $|AB| = |AD|$
 $m(\widehat{CBE}) = 2m(\widehat{CBD})$
 $m(\widehat{ACB}) = 20^\circ$

Yukarıdaki verilere göre, $m(\widehat{EAC}) = \alpha$ kaç derecedir?

- A) 30 B) 40 C) 50 D) 60 E) 80

11.

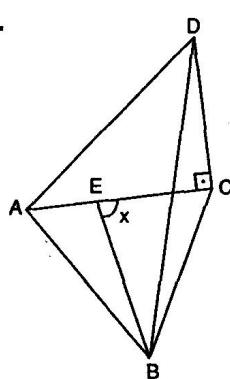


ABC bir üçgen
 $[BD]$, açıortay
 $|AB| = |AC|$
 $|BD| = |BE|$
 $|DE| = |EC|$

Yukarıdaki verilere göre, $m(\widehat{BDE}) = \alpha$ kaç derecedir?

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

12.

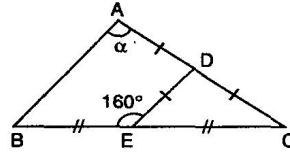


ABC bir eşkenar üçgen
 ACD bir ikizkenar dik üçgen
 $m(\widehat{ABE}) = 2m(\widehat{DBE})$

Yukarıdaki verilere göre, $m(\widehat{BEC}) = x$ kaç derecedir?

- A) 80 B) 90 C) 100 D) 120 E) 135

13.

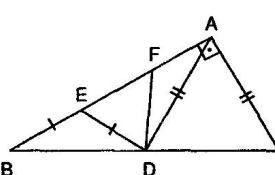


ABC bir üçgen
 $|BE| = |EC|$
 $|AD| = |DC| = |DE|$
 $m(\widehat{BED}) = 160^\circ$

Yukarıdaki verilere göre, $m(\widehat{BAC}) = \alpha$ kaç derecedir?

- A) 140 B) 145 C) 150 D) 160 E) 170

14.

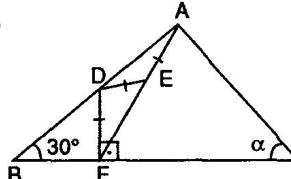


BAC bir dik üçgen
 $|AD| = |AC|$
 $|BE| = |ED|$
 $m(\widehat{EDF}) = 2m(\widehat{ADF})$

Yukarıdaki verilere göre, $m(\widehat{ADF})$ kaç derecedir?

- A) 10 B) 20 C) 30 D) 40 E) 60

15.

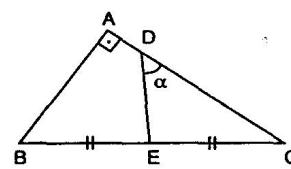


ABC bir üçgen
 $[DF] \perp [BC]$
 $|AE| = |ED| = |DF|$
 $|AF| = |AC|$
 $m(\widehat{ABC}) = 30^\circ$

Yukarıdaki verilere göre, $m(\widehat{ACB}) = \alpha$ kaç derecedir?

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

16.



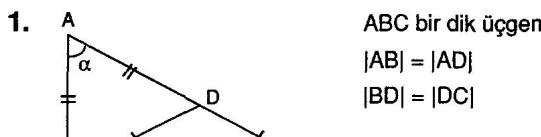
BAC bir dik üçgen
 $|DC| = 3|AD|$
 $|AB| = 2|AD|$

Yukarıdaki verilere göre, $m(\widehat{EDC}) = \alpha$ kaç derecedir?

- A) 25 B) 30 C) 45 D) 50 E) 60

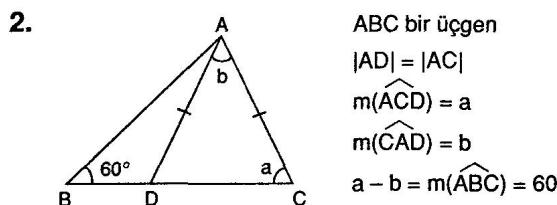
ÜÇGENDE AÇILAR

Konu Uygulama Testi - 2



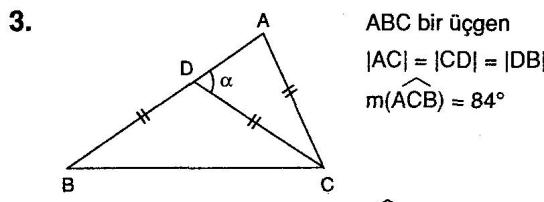
Yukarıdaki verilere göre, $m(\widehat{BAC}) = \alpha$ kaç derecedir?

- A) 30 B) 45 C) 60 D) 70 E) 80



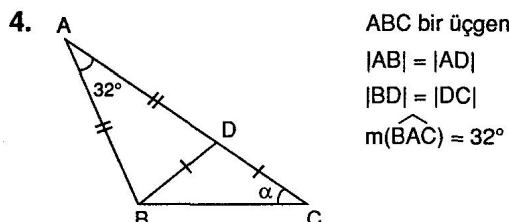
Yukarıdaki verilere göre, $m(\widehat{BAC})$ kaç derecedir?

- A) 10 B) 20 C) 30 D) 40 E) 60



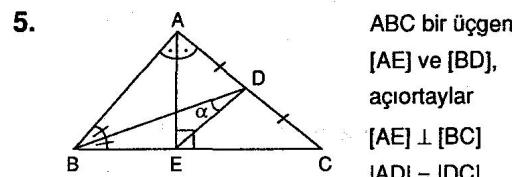
Yukarıdaki verilere göre, $m(\widehat{ADC}) = \alpha$ kaç derecedir?

- A) 34 B) 42 C) 44 D) 54 E) 64



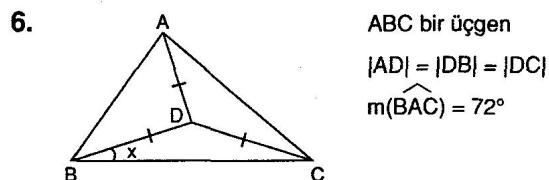
Yukarıdaki verilere göre, $m(\widehat{ACB}) = \alpha$ kaç derecedir?

- A) 27 B) 32 C) 37 D) 57 E) 74



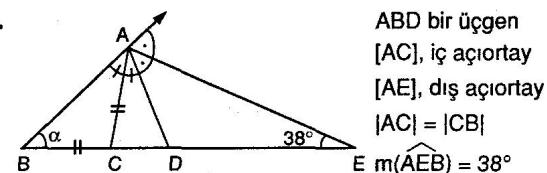
Yukarıdaki verilere göre, $m(\widehat{BDE}) = \alpha$ kaç derecedir?

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



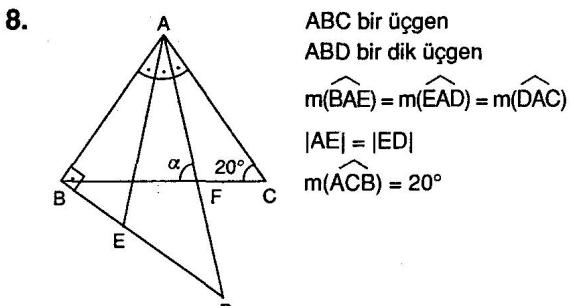
Yukarıdaki verilere göre, $m(\widehat{DBC}) = x$ kaç derecedir?

- A) 18 B) 24 C) 32 D) 36 E) 48



Yukarıdaki verilere göre, $m(\widehat{ABE}) = \alpha$ kaç derecedir?

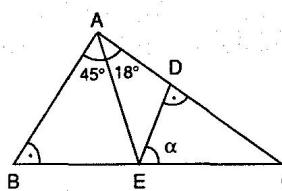
- A) 13 B) 26 C) 32 D) 38 E) 42



Yukarıdaki verilere göre, $m(\widehat{AFB}) = \alpha$ kaç derecedir?

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

9.

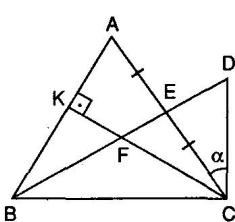


ABC bir üçgen
 $m(\widehat{ABC}) = m(\widehat{EDC})$
 $m(\widehat{BAE}) = 45^\circ$
 $m(\widehat{CAE}) = 18^\circ$

Yukarıdaki verilere göre, $m(\widehat{CED}) = \alpha$ kaç derecedir?

- A) 45 B) 53 C) 63 D) 73 E) 80

10.

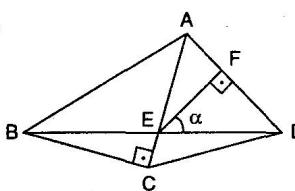


ABC ve BCD
 birer üçgen
 $|CK| \perp |AB|$
 $|AB| = |BC|$
 $|FC| = |FD|$
 $|AE| = |EC|$
 $m(\widehat{ABC}) = 48^\circ$

Yukarıdaki verilere göre, $m(\widehat{ACD}) = \alpha$ kaç derecedir?

- A) 24 B) 33 C) 45 D) 48 E) 52

13.

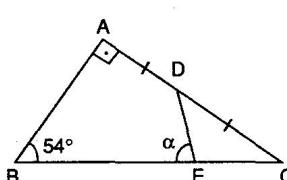


ACB bir ikizkenar
 dik üçgen
 ACD bir eşkenar
 üçgen
 B, E, D doğrusal
 $[EF] \perp [AD]$

Yukarıdaki verilere göre, $m(\widehat{DEF}) = \alpha$ kaç derecedir?

- A) 30 B) 45 C) 60 D) 75 E) 80

14.



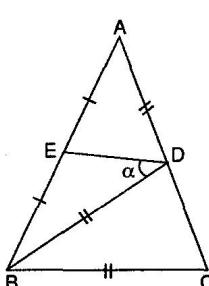
BAC bir dik üçgen
 $|BE| = 3|EC|$
 $|AD| = |DC|$
 $m(\widehat{ABC}) = 54^\circ$

Yukarıdaki verilere göre, $m(\widehat{BED}) = \alpha$ kaç derecedir?

- A) 36 B) 48 C) 54 D) 72 E) 80

GÜVENLİK YATIRIMLARI

11.

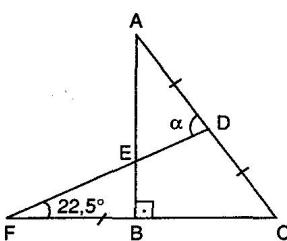


ABC bir üçgen
 $|AB| = |AC|$
 $|AE| = |EB|$
 $|AD| = |DB| = |BC|$

Yukarıdaki verilere göre, $m(\widehat{BDE}) = \alpha$ kaç derecedir?

- A) 64 B) 54 C) 48 D) 36 E) 18

15.

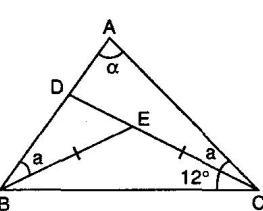


ABC bir dik üçgen
 $|AD| = |DC| = |BF|$
 $m(\widehat{DFC}) = 22,5^\circ$

Yukarıdaki verilere göre, $m(\widehat{ADF}) = \alpha$ kaç derecedir?

- A) 45 B) 67,5 C) 70 D) 75 E) 82,5

12.

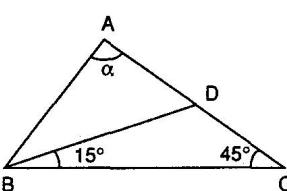


ABC bir üçgen
 $|BE| = |EC|$
 $m(\widehat{DBE}) = m(\widehat{ACD}) = a$
 $m(\widehat{BDC}) = 3a + 24^\circ$
 $m(\widehat{BCD}) = 12^\circ$

Yukarıdaki verilere göre, $m(\widehat{BAC}) = \alpha$ kaç derecedir?

- A) 90 B) 72 C) 68 D) 54 E) 48

16.



ABC bir üçgen
 $|BD| = 2|AD|$
 $m(\widehat{CBD}) = 15^\circ$
 $m(\widehat{ACB}) = 45^\circ$

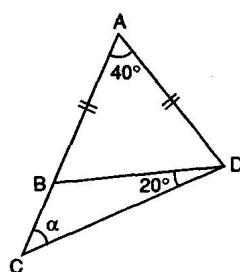
Yukarıdaki verilere göre, $m(\widehat{BAC}) = \alpha$ kaç derecedir?

- A) 60 B) 75 C) 90 D) 100 E) 120

ÜÇGENDE AÇILAR

Konu Uygulama Testi - 3

1.



ACD bir üçgen

$$|AB| = |AD|$$

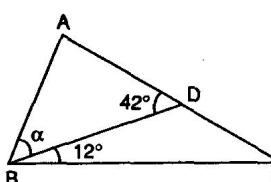
$$m(\widehat{BDC}) = 20^\circ$$

$$m(\widehat{CAD}) = 40^\circ$$

Yukarıdaki verilere göre, $m(\widehat{ACD}) = \alpha$ kaç derecedir?

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

2.



ABC bir üçgen

$$|AC| = |CB|$$

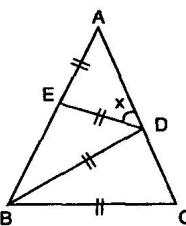
$$m(\widehat{ADB}) = 42^\circ$$

$$m(\widehat{DBC}) = 12^\circ$$

Yukarıdaki verilere göre, $m(\widehat{ABD}) = \alpha$ kaç derecedir?

- A) 42 B) 54 C) 63 D) 73 E) 84

3.



ABC bir ikizkenar üçgen

$$|AB| = |AC|$$

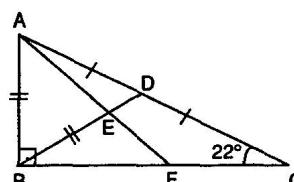
$$|AE| = |ED| = |DB| = |BC|$$

$$m(\widehat{ADE}) = x$$

Yukarıdaki verilere göre, $\frac{7}{2}x$ kaç derecedir?

- A) 40 B) 50 C) 60 D) 80 E) 90

4.



ABC bir dik üçgen

$$|AD| = |DC|$$

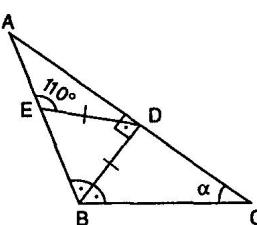
$$|AB| = |BE|$$

$$m(\widehat{ACB}) = 22^\circ$$

Yukarıdaki verilere göre, $m(\widehat{FAC})$ kaç derecedir?

- A) 22 B) 12 C) 10 D) 8 E) 6

5.



ABC bir üçgen

$$|BD|, \text{ açıortay}$$

$$|BD| \perp |AC|$$

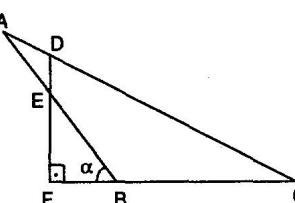
$$|BD| = |DE|$$

$$m(\widehat{AED}) = 110^\circ$$

Yukarıdaki verilere göre, $m(\widehat{ACB}) = \alpha$ kaç derecedir?

- A) 10 B) 20 C) 25 D) 30 E) 40

6.



DFC bir dik üçgen

A, D, C doğrusal

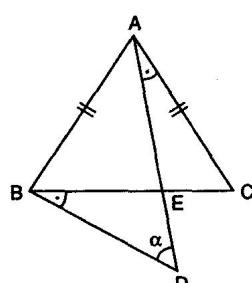
$$|AB| = |BC|$$

$$|AD| = |DE|$$

Yukarıdaki verilere göre, $m(\widehat{ABF}) = \alpha$ kaç derecedir?

- A) 30 B) 45 C) 50 D) 60 E) 75

7.



ABC ve ABD birer üçgen

$$|AB| = |AC|$$

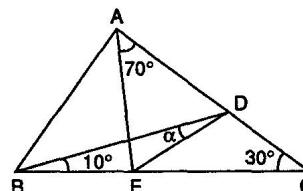
$$m(\widehat{CBD}) = m(\widehat{DAC})$$

$$m(\widehat{BAC}) = 100^\circ$$

Yukarıdaki verilere göre, $m(\widehat{ADB}) = \alpha$ kaç derecedir?

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

8.



ABC bir üçgen

$$|AE| = |AD|$$

$$m(\widehat{DBC}) = 10^\circ$$

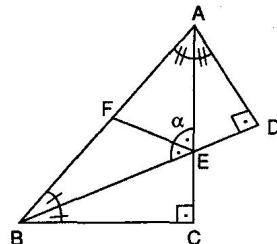
$$m(\widehat{ACB}) = 30^\circ$$

$$m(\widehat{EAC}) = 70^\circ$$

Yukarıdaki verilere göre, $m(\widehat{BDE}) = \alpha$ kaç derecedir?

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

9.

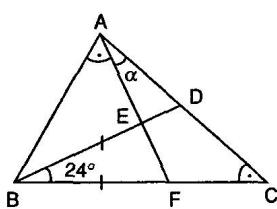


$\triangle ADB$ ve $\triangle ACB$ birer dik üçgen
 $[AE]$, $[EF]$ ve
 $[BE]$ açıortayları

Yukarıdaki verilere göre, $m(\widehat{AEF}) = \alpha$ kaç derecedir?

- A) 75 B) 60 C) 45 D) 30 E) 15

10.

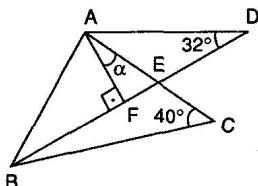


$\triangle ABC$ bir üçgen
 $|AB| = |AF|$
 $|BE| = |BF|$
 $m(\widehat{BAF}) = m(\widehat{ACB})$
 $m(\widehat{DBC}) = 24^\circ$

Yukarıdaki verilere göre, $m(\widehat{FAC}) = \alpha$ kaç derecedir?

- A) 18 B) 27 C) 36 D) 48 E) 54

11.

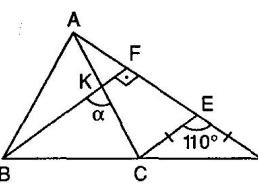


$\triangle ABC$ bir üçgen
 $[AF] \perp [BD]$
 $|AB| = |AC| = |AD|$
 $m(\widehat{ADB}) = 32^\circ$
 $m(\widehat{ACB}) = 40^\circ$

Yukarıdaki verilere göre, $m(\widehat{FAE}) = \alpha$ kaç derecedir?

- A) 22 B) 32 C) 42 D) 45 E) 52

12.

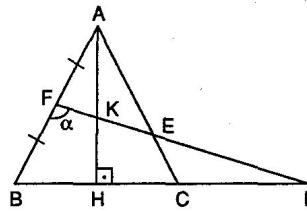


$\triangle ABD$ bir üçgen
 $\triangle ABC$ bir eşkenar üçgen
 $[BF] \perp [AD]$
 $|CE| = |ED|$
 $m(\widehat{CED}) = 110^\circ$

Yukarıdaki verilere göre, $m(\widehat{BKC}) = \alpha$ kaç derecedir?

- A) 45 B) 55 C) 65 D) 75 E) 85

13.

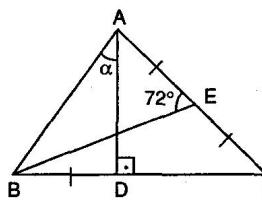


$\triangle ABC$ bir eşkenar üçgen
 $[AH] \perp [BD]$
 $|AH| = |CD|$
 $|AF| = |FB|$

Yukarıdaki verilere göre, $m(\widehat{BFD}) = \alpha$ kaç derecedir?

- A) 105 B) 110 C) 120 D) 135 E) 150

14.



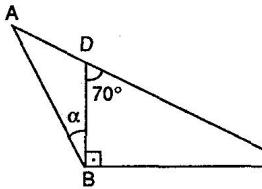
$\triangle ABC$ bir üçgen
 $[AD] \perp [BC]$
 $|AB| = |BE|$
 $|AE| = |EC| = |BD|$
 $m(\widehat{AEB}) = 72^\circ$

Yukarıdaki verilere göre, $m(\widehat{BAD}) = \alpha$ kaç derecedir?

- A) 24 B) 30 C) 36 D) 48 E) 54

GÜVENDER YAYINLARI

15.

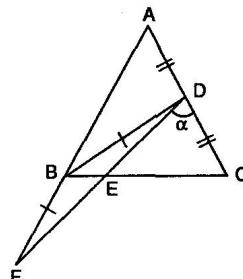


$\triangle ABC$ bir üçgen
 $|DC| = 2|AB|$
 $[DB] \perp [BC]$
 $m(\widehat{BDC}) = 70^\circ$

Yukarıdaki verilere göre, $m(\widehat{ABD}) = \alpha$ kaç derecedir?

- A) 15 B) 20 C) 30 D) 35 E) 45

16.



$\triangle ABC$ bir eşkenar üçgen
 A, B, F doğrusal
 $|AD| = |DC|$
 $|BD| = |BF|$

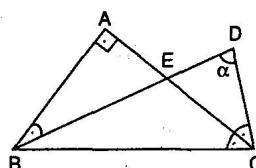
Yukarıdaki verilere göre, $m(\widehat{FDC}) = \alpha$ kaç derecedir?

- A) 30 B) 45 C) 60 D) 75 E) 90

ÜÇGENDE AÇILAR

Konu Uygulama Testi - 4

1.

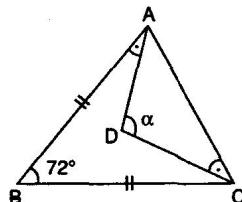


BAC bir dik üçgen
 $m(\widehat{ABD}) = m(\widehat{BCA}) = (\widehat{ACD})$

Yukarıdaki verilere göre, $m(\widehat{BDC}) = \alpha$ kaç derecedir?

- A) 20 B) 45 C) 60 D) 75 E) 90

2.

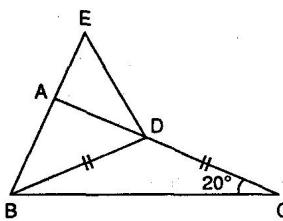


ABC bir üçgen
 $|AB| = |BC|$
 $m(\widehat{BAD}) = m(\widehat{ACD})$
 $m(\widehat{ABC}) = 72^\circ$

Yukarıdaki verilere göre, $m(\widehat{ADC}) = \alpha$ kaç derecedir?

- A) 90 B) 108 C) 126 D) 144 E) 150

3.

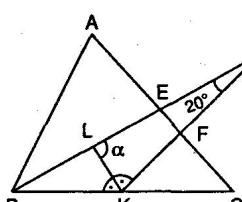


ABC ve BED birer üçgen
 $|AB| = |AD| = |ED|$
 $|BD| = |DC|$
 $m(\widehat{ACB}) = 20^\circ$

Yukarıdaki verilere göre, $m(\widehat{BDE})$ kaç derecedir?

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

4.

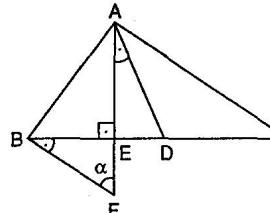


ABC bir eşkenar üçgen
 $[KL]$, açıortay
 $|AE| = |EC|$
 $m(\widehat{BDK}) = 20^\circ$

Yukarıdaki verilere göre, $m(\widehat{DLK}) = \alpha$ kaç derecedir?

- A) 75 B) 90 C) 95 D) 105 E) 120

5.

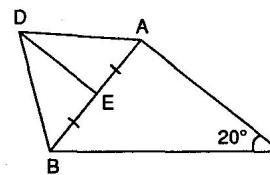


ABC bir üçgen
 $[AD]$, BAC açısının açıortayı
 $[BC] \perp [AF]$
 $m(\widehat{FAD}) = m(\widehat{CBF})$
 $m(\widehat{ABC}) - m(\widehat{ACB}) = 20^\circ$

Yukarıdaki verilere göre, $m(\widehat{AFB}) = \alpha$ kaç derecedir?

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

6.

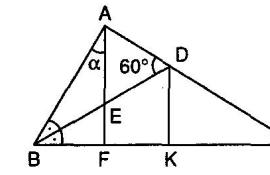


ABC bir üçgen
 ABD bir eşkenar üçgen
 $[DE] // [AC]$
 $|AE| = |EB|$
 $m(\widehat{ACB}) = 20^\circ$

Yukarıdaki verilere göre, $m(\widehat{DBC})$ kaç derecedir?

- A) 70 B) 100 C) 120 D) 130 E) 150

7.

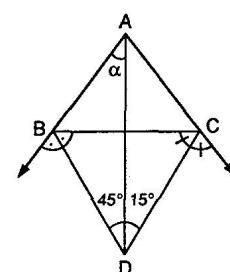


ABC bir üçgen
 $[AF]$, açıortay
 $[AF] // [DK]$
 $|BD| = |DC|$
 $|BK| = |KC|$
 $m(\widehat{ADB}) = 60^\circ$

Yukarıdaki verilere göre, $m(\widehat{BAF}) = \alpha$ kaç derecedir?

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

8.

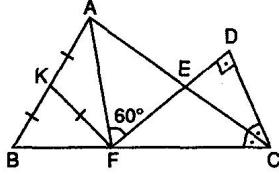


ABC bir üçgen
 $[BD]$ ve $[CD]$, dış açıortaylar.
 $m(\widehat{ADB}) = 45^\circ$
 $m(\widehat{ADC}) = 15^\circ$

Yukarıdaki verilere göre, $m(\widehat{BAD}) = \alpha$ kaç derecedir?

- A) 15 B) 30 C) 45 D) 60 E) 75

9.

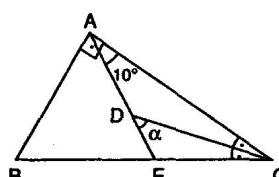


ABC bir üçgen
CDF bir dik üçgen
[CA] açıortay
 $|AK| = |KB| = |KF|$
 $m(\widehat{AFD}) = 60^\circ$

Yukarıdaki verilere göre, $m(\widehat{ACD})$ kaç derecedir?

- A) 20 B) 30 C) 36 D) 40 E) 60

10.

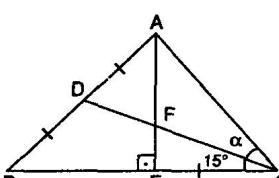


BAC bir dik üçgen
[CD], açıortay
 $|AB| = |AE|$
 $m(\widehat{CAE}) = 10^\circ$

Yukarıdaki verilere göre, $m(\widehat{CDE}) = \alpha$ kaç derecedir?

- A) 20 B) 25 C) 30 D) 35 E) 50

11.

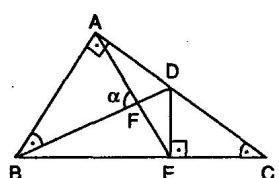


ABC bir üçgen
 $[AE] \perp [BC]$
 $|AD| = |DB| = |EC|$
 $m(\widehat{BCD}) = 15^\circ$

Yukarıdaki verilere göre, $m(\widehat{ACD}) = \alpha$ kaç derecedir?

- A) 15 B) 20 C) 25 D) 30 E) 45

12.

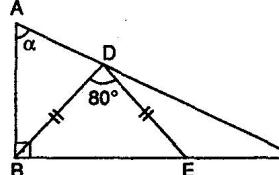


BAC bir dik üçgen
 $|BD| = |DC|$
 $[DE] \perp [BC]$
 $m(\widehat{ABD}) = m(\widehat{ACB})$

Yukarıdaki verilere göre, $m(\widehat{AFB}) = \alpha$ kaç derecedir?

- A) 70 B) 80 C) 90 D) 100 E) 120

13.

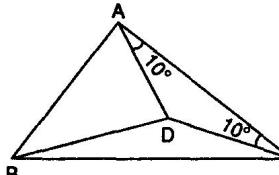


ABC bir dik üçgen
 $m(\widehat{ADB}) = 3m(\widehat{ACB})$
 $|BD| = |DE|$
 $m(\widehat{BDE}) = 80^\circ$

Yukarıdaki verilere göre, $m(\widehat{BAC}) = \alpha$ kaç derecedir?

- A) 45 B) 55 C) 60 D) 65 E) 80

14.

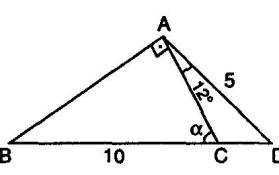


ABC bir üçgen
ABD bir eşkenar üçgen
 $m(\widehat{DAC}) = m(\widehat{DCA}) = 10^\circ$

Yukarıdaki verilere göre, $m(\widehat{ABC})$ kaç derecedir?

- A) 70 B) 75 C) 80 D) 85 E) 90

15.

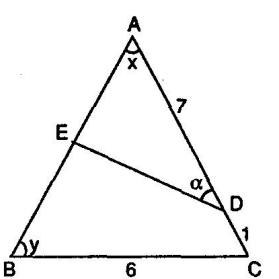


BAC bir dik üçgen
B, C, D doğrusal
 $|BC| = 10 \text{ cm}$
 $|AD| = 5 \text{ cm}$
 $m(\widehat{CAD}) = 12^\circ$

Yukarıdaki verilere göre, $m(\widehat{ACB}) = \alpha$ kaç derecedir?

- A) 52 B) 64 C) 70 D) 72 E) 80

16.



ABC bir üçgen
 $|AE| = |EB|$
 $|AD| = 7 \text{ cm}$
 $|DC| = 1 \text{ cm}$
 $|BC| = 6 \text{ cm}$
 $m(\widehat{BAC}) = x$
 $m(\widehat{ABC}) = y$
 $x + y = 132^\circ$

Yukarıdaki verilere göre, $m(\widehat{ADE}) = \alpha$ kaç derecedir?

- A) 36 B) 24 C) 20 D) 16 E) 12