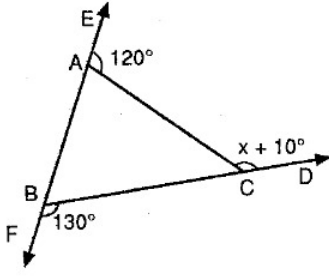


ÜÇGENDE AÇILAR

1.

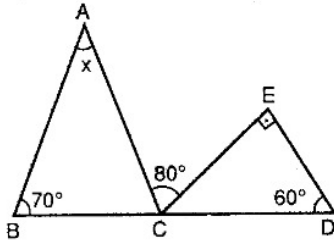


ABC bir üçgen
 $m(\widehat{EAC}) = 120^\circ$
 $m(\widehat{DBF}) = 130^\circ$
 $m(\widehat{ACD}) = x + 10^\circ$

Yukarıdaki verilere göre, x kaç derecedir?

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

2.

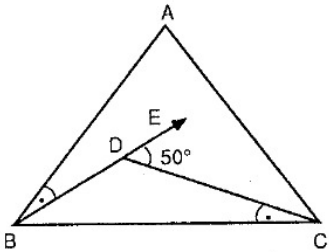


Şekilde $C \in [BD]$
 $[CE] \perp [ED]$
 $m(\widehat{ABD}) = 70^\circ$
 $m(\widehat{ACE}) = 80^\circ$
 $m(\widehat{EDB}) = 60^\circ$
 $m(\widehat{BAC}) = x$

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

- A) 20 B) 25 C) 30 D) 35 E) 40

3.

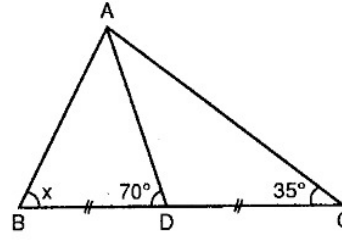


ABC bir üçgen
 $m(\widehat{ABE}) = m(\widehat{DCB})$
 $m(\widehat{EDC}) = 50^\circ$

Yukarıdaki verilere göre, \widehat{ABC} nin ölçüsü kaç derecedir?

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

4.

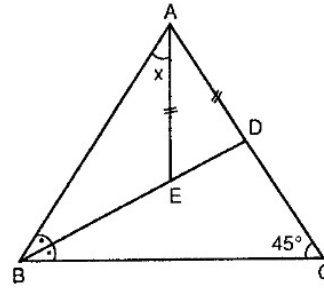


ABC bir üçgen,
 $|BD| = |DC|$
 $m(\widehat{ACB}) = 35^\circ$
 $m(\widehat{ADB}) = 70^\circ$
 $m(\widehat{ABC}) = x$

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

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

5.

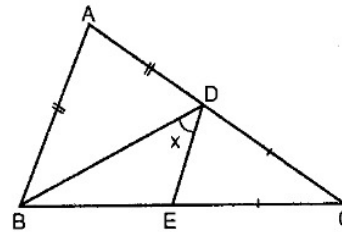


ABC bir üçgen,
 $|AE| = |AD|$
 $m(\widehat{ABD}) = m(\widehat{DBC})$
 $m(\widehat{ACB}) = 45^\circ$
 $m(\widehat{BAE}) = x$

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

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

6.

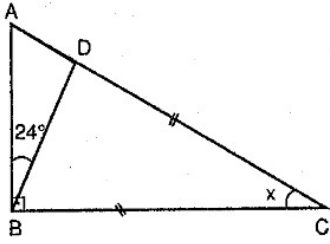


ABC bir üçgen
 $|AB| = |AD|$
 $|CD| = |CE|$
 $m(\widehat{ABC}) = 80^\circ$
 $m(\widehat{BDE}) = x$

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

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

7.

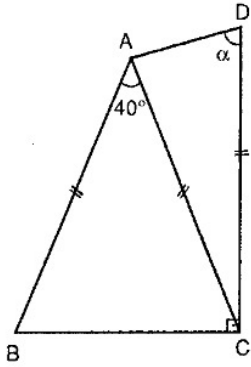


ABC dik üçgen,
 $|CD| = |CB|$
 $m(\widehat{ABD}) = 24^\circ$
 $m(\widehat{ACB}) = x$

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

- A) 42 B) 48 C) 54 D) 60 E) 66

8.

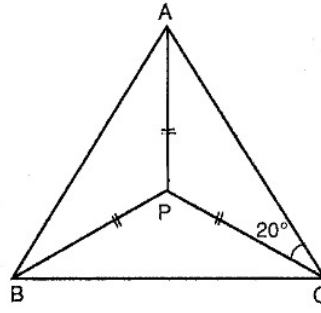


ABC bir üçgen
 $[DC] \perp [BC]$
 $|AB| = |AC| = |DC|$
 $m(\widehat{BAC}) = 40^\circ$
 $m(\widehat{ADC}) = \alpha$

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

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

9.

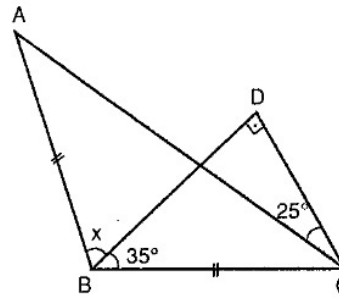


ABC bir üçgen
 $|AP| = |PB| = |CP|$
 $m(\widehat{ACP}) = 20^\circ$

Yukarıdaki verilere göre, \widehat{ABC} nin ölçüsü kaç derecedir?

- A) 70 B) 68 C) 64 D) 62 E) 60

10.

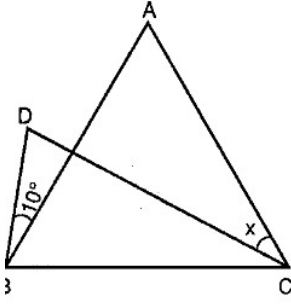


ABC bir üçgen
 $[BD] \perp [DC]$
 $|AB| = |BC|$
 $m(\widehat{DCA}) = 25^\circ$
 $m(\widehat{DBC}) = 35^\circ$
 $m(\widehat{ABD}) = x$

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

- A) 85 B) 80 C) 75 D) 70 E) 65

11.



ABC bir eşkenar üçgen

$|DC| = |BA|$

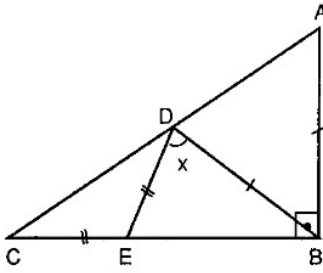
$m(\widehat{DBA}) = 10^\circ$

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

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

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

12.



ABC dik üçgen

$|AB| = |DB|$

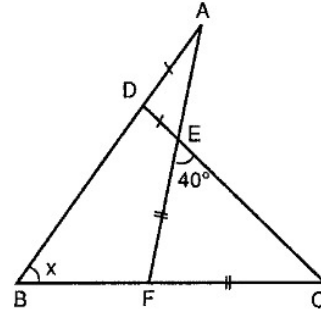
$|CE| = |ED|$

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

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

- A) 115 B) 105 C) 90 D) 85 E) 75

13.



Şekilde,

$|DA| = |DE|$

$|FE| = |FC|$

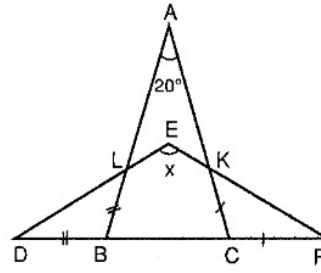
$m(\widehat{FEC}) = 40^\circ$

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

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

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

14.



ABC bir üçgen,

$|BD| = |BL|$

$|CK| = |CF|$

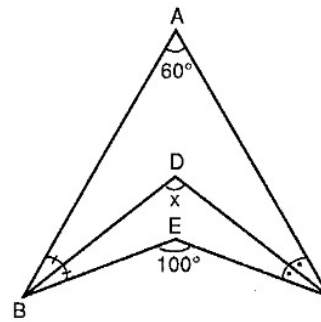
$m(\widehat{BAC}) = 20^\circ$

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

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

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

15.



Şekilde,

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

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

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

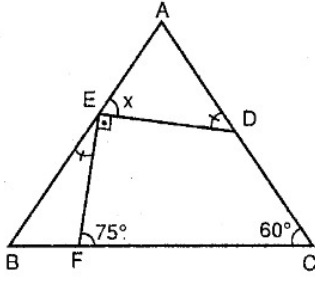
$m(\widehat{BAC}) = 60^\circ$

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

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

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

16.

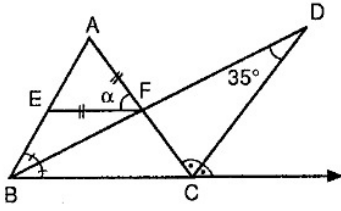


ABC bir üçgen,
 $[FE] \perp [ED]$
 $m(\widehat{ADE}) = m(\widehat{BEF})$
 $m(\widehat{ACB}) = 60^\circ$
 $m(\widehat{EFC}) = 75^\circ$
 $m(\widehat{AED}) = x$

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

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

17.

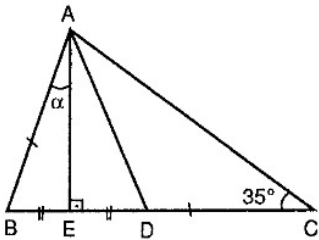


ABC bir üçgen
 $[BD]$ ve $[CD]$ açı-ortay
 $|AF| = |EF|$
 $m(\widehat{BDC}) = 35^\circ$
 $m(\widehat{AFE}) = \alpha$

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

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

18.

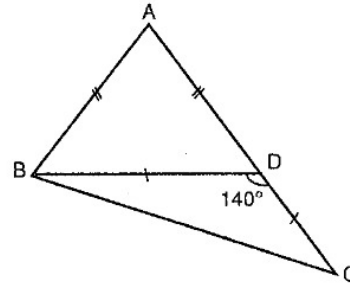


ABC bir üçgen
 $[AE] \perp [BC]$
 $|AB| = |DC|$
 $|BE| = |ED|$
 $m(\widehat{ACB}) = 35^\circ$

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

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

19.

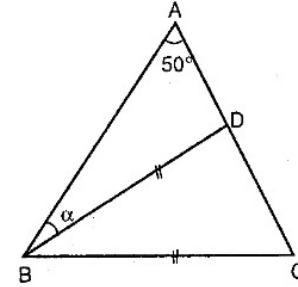


ABC bir üçgen
 $|AB| = |AD|$
 $|BD| = |DC|$
 $m(\widehat{BDC}) = 140^\circ$

Yukarıdaki verilere göre, \widehat{ABC} nin ölçüsü kaç derecedir?

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

20.



ABC bir üçgen
 $|AB| = |AC|$
 $|BD| = |BC|$
 $m(\widehat{BAC}) = 50^\circ$
 $m(\widehat{ABD}) = \alpha$

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

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