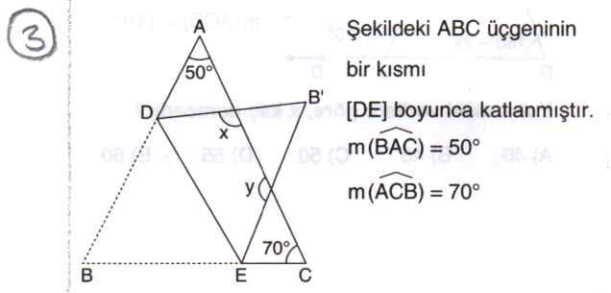
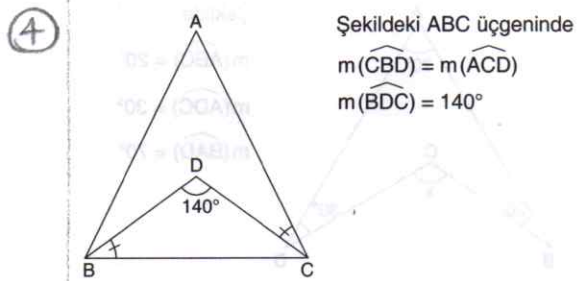


Yukarıdaki verilere göre,  $m(\widehat{BAD})$  kaç derecedir?  
A) 6 B) 12 C) 18 D) 20 E) 24

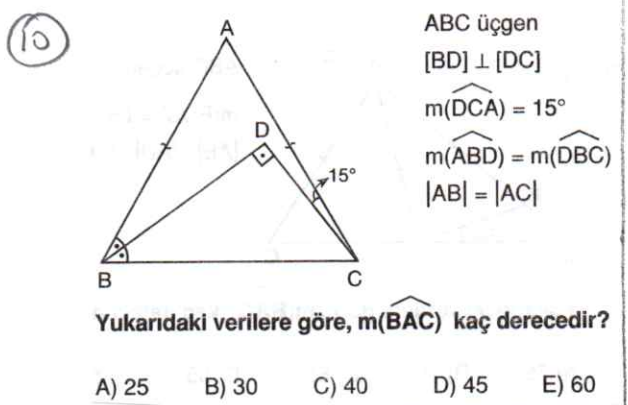
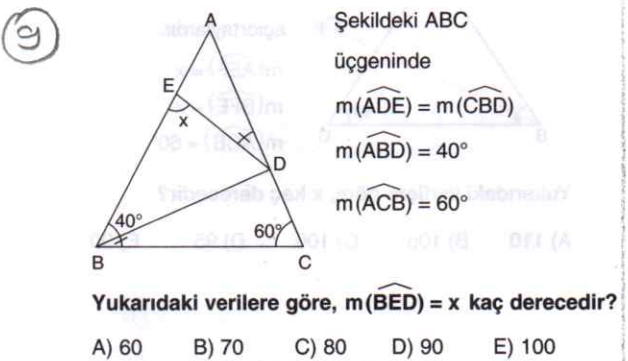
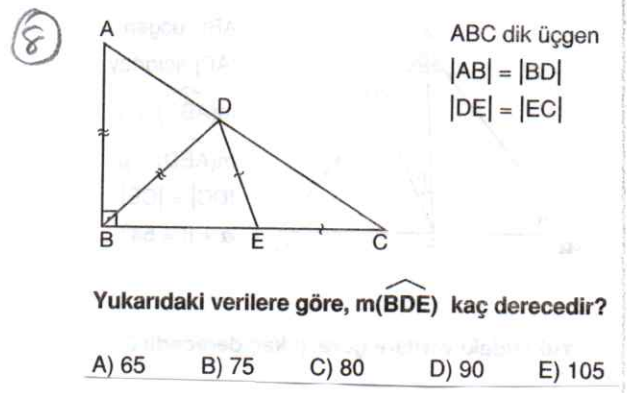
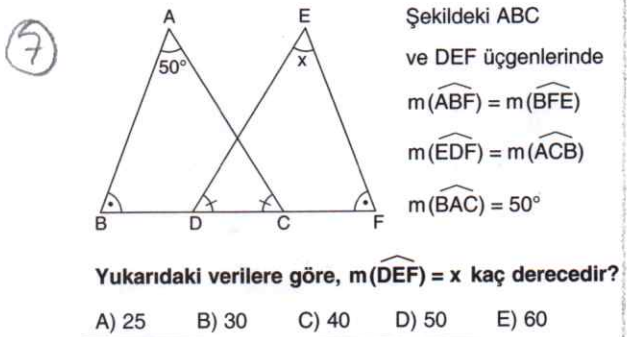
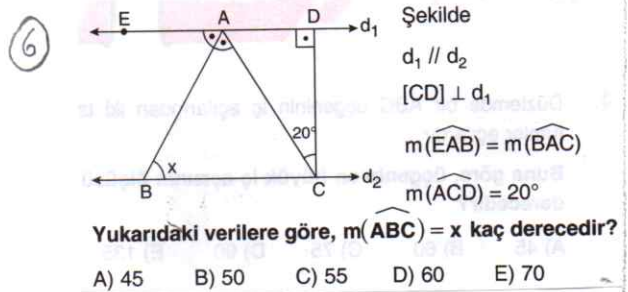
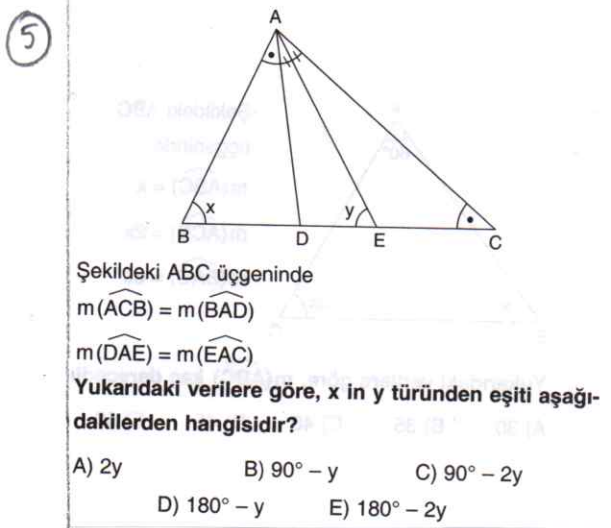
2 Düzlemde dar açılı bir ABC üçgeninde  $m(\widehat{BAC}) = 50^\circ$  dir.  $[BE] \perp [AC]$  olarak şekilde  $[BE]$  çizildiğinde  $m(\widehat{CBE}) = 20^\circ$  oluyor. Buna göre,  $[CD] \perp [AB]$  olacak şekilde  $[CD]$  çizilirse  $m(\widehat{BCD})$  kaç derece olur?  
A) 30 B) 35 C) 40 D) 50 E) 60



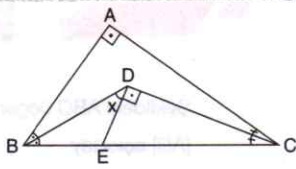
Yukarıdaki verilere göre,  $x + y$  toplamı kaç derecedir?  
A) 250 B) 240 C) 230 D) 220 E) 210



Yukarıdaki verilere göre,  $m(\widehat{ACB})$  kaç derecedir?  
A) 35 B) 40 C) 45 D) 50 E) 55



11

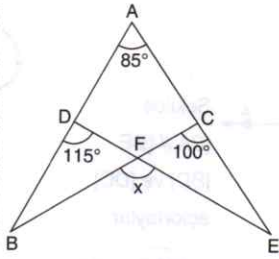


ABC dik üçgen  
 $[ED] \perp [DC]$   
 $[BD]$  ve  $[CE]$   
 açıortaylar

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

- A) 30 B) 32 C) 35 D) 40 E) 45

12

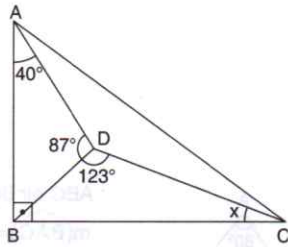


Şekildeki ABC  
 ve ADE birer üçgen  
 $m(\widehat{BAE}) = 85^\circ$   
 $m(\widehat{BCE}) = 100^\circ$   
 $m(\widehat{BDE}) = 115^\circ$

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

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

13



Şekildeki ABC üçgeninde  $[AB] \perp [BC]$

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

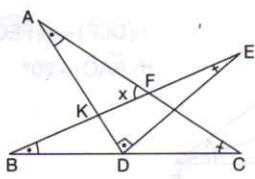
$$m(\widehat{ADB}) = 87^\circ$$

$$m(\widehat{BDC}) = 123^\circ$$

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

- A) 17 B) 20 C) 23 D) 25 E) 27

14

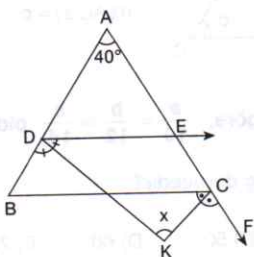


Şekilde,  
 $[AC] \cap [BE] = \{F\}$   
 $[AD] \perp [DE]$   
 $m(\widehat{DAC}) = m(\widehat{CBE})$   
 $m(\widehat{BED}) = m(\widehat{ACB})$   
 $m(\widehat{AFB}) = x$

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

- A) 15 B) 25 C) 30 D) 45 E) 60

15

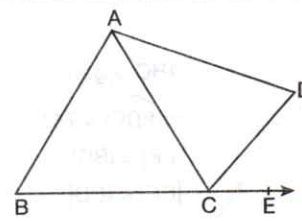


ABC bir üçgen  
 $[DE] \parallel [BC]$   
 $[DK]$  ve  $[CK]$   
 açıortaylar  
 $m(\widehat{BAF}) = 40^\circ$

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

- A) 50 B) 55 C) 60 D) 65 E) 70

16



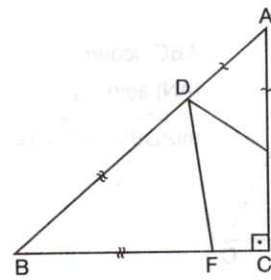
ABC eşkenar  
 üçgen  
 $|AB| = |AD|$

$$m(\widehat{BAD}) + m(\widehat{DCE}) = 195^\circ$$

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

- A) 70 B) 65 C) 50 D) 40 E) 30

17

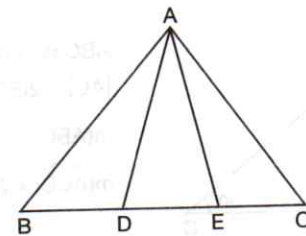


ABC dik üçgen  
 $|AD| = |AE|$   
 $|BD| = |BF|$

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

- A) 18 B) 24 C) 32 D) 36 E) 45

18

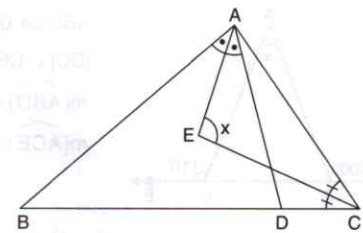


ABC üçgen  
 $m(\widehat{BAC}) = 110^\circ$   
 $|AB| = |BE|$   
 $|AC| = |CD|$

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

- A) 28 B) 30 C) 32 D) 35 E) 36

19



Şekildeki ABC üçgeninde  $[CE]$  ve  $[AE]$  açıortay

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

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

- A) 60 B) 75 C) 90 D) 105 E) 120

20

Düzlemde bir ABC üçgeninde  $m(\widehat{B}) = 60^\circ$  ve  $m(\widehat{C}) = 20^\circ$  dir. A köşesinden çizilen iç açıortay ve yükseklik  $[BC]$  kenarını sırasıyla E ve D noktalarında kesiyor.

Buna göre,  $m(\widehat{DAE})$  kaç derecedir?

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