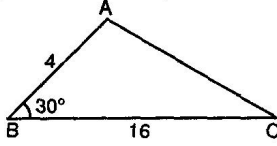


# ÜÇGENLERDE UZUNLUK ve ALAN

## ÜÇGENLERDE UZUNLUK ve ALAN

Konu Kavrama Testi - 1

1.

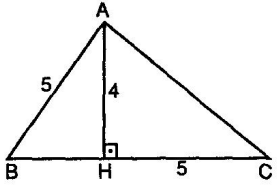


ABC bir üçgen  
 $m(\widehat{ABC}) = 30^\circ$   
 $|AB| = 4$  cm  
 $|BC| = 16$  cm

Yukarıdaki verilere göre, Alan(ABC) kaç  $\text{cm}^2$  dir?

- A) 16 B) 12 C) 10 D) 8 E) 4

2.

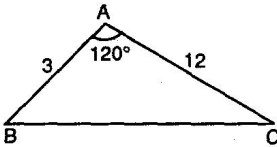


ABC bir üçgen  
 $[AH] \perp [BC]$   
 $|AB| = |AC| = 5$  cm  
 $|AH| = 4$  cm

Yukarıdaki verilere göre, Alan(ABC) kaç  $\text{cm}^2$  dir?

- A) 24 B) 20 C) 16 D) 12 E) 10

3.

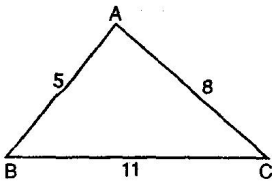


ABC bir üçgen  
 $m(\widehat{BAC}) = 120^\circ$   
 $|AB| = 3$  cm  
 $|AC| = 12$  cm

Yukarıdaki verilere göre, Alan(ABC) kaç  $\text{cm}^2$  dir?

- A)  $36\sqrt{3}$  B)  $27\sqrt{3}$  C)  $24\sqrt{3}$   
D)  $18\sqrt{3}$  E)  $9\sqrt{3}$

4.

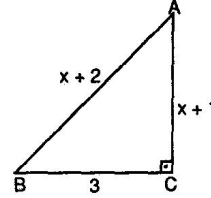


ABC bir üçgen  
 $|AB| = 5$  cm  
 $|AC| = 8$  cm  
 $|BC| = 11$  cm

Yukarıdaki verilere göre, Alan(ABC) kaç  $\text{cm}^2$  dir?

- A)  $6\sqrt{21}$  B)  $5\sqrt{21}$  C)  $4\sqrt{21}$   
D)  $3\sqrt{21}$  E)  $2\sqrt{21}$

5.



ACB bir dik üçgen  
 $|AB| = (x + 2)$   
 $|AC| = (x + 1)$   
 $|BC| = 3$  cm

Yukarıdaki verilere göre, Alan(ABC) kaç  $\text{cm}^2$  dir?

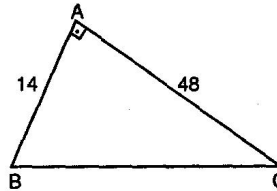
- A) 20 B) 14 C) 12 D) 10 E) 6

6.

Çevresi 18 cm olan bir üçgenin içteğet çemberinin yarıçapı 2 cm olduğuna göre, alanı kaç  $\text{cm}^2$  dir?

- A) 36 B) 32 C) 27 D) 18 E) 12

7.

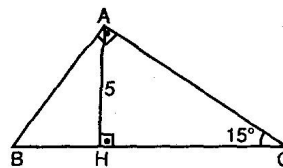


BAC bir dik üçgen  
 $|AB| = 14$  cm  
 $|AC| = 48$  cm

Yukarıdaki verilere göre, BAC dik üçgeninin çevrel çemberinin yarıçapı kaç cm dir?

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

8.

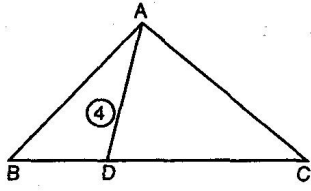


BAC bir dik üçgen  
 $[AH] \perp [BC]$   
 $m(\widehat{ACB}) = 15^\circ$   
 $|AH| = 5$  cm

Yukarıdaki verilere göre, Alan(ABC) kaç  $\text{cm}^2$  dir?

- A) 100 B) 75 C) 50 D) 45 E) 25

9.

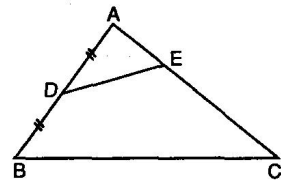


ABC bir üçgen  
 $|DC| = 3 |BD|$   
 $\text{Alan}(\text{ABD}) = 4 \text{ cm}^2$

Yukarıdaki verilere göre,  $\text{Alan}(\text{ABC})$  kaç  $\text{cm}^2$  dir?

- A) 8 B) 10 C) 12 D) 14 E) 16

10.

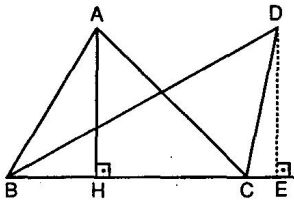


ABC bir üçgen  
 $|AD| = |DB|$   
 $|EC| = 4|AE|$   
 $\text{Alan}(\text{ADE}) = 4 \text{ cm}^2$

Yukarıdaki verilere göre,  $\text{Alan}(\text{ABC})$  kaç  $\text{cm}^2$  dir?

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

11.

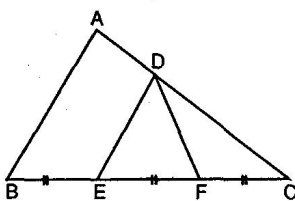


ABC ve BCD  
 birer üçgen  
 $|AH| \perp |BE|$   
 $|DE| \perp |EB|$   
 $|AH| = 2 \text{ cm}$   
 $|DE| = 3 \text{ cm}$   
 $\text{Alan}(\text{ABC}) = 30 \text{ cm}^2$

Yukarıdaki verilere göre,  $\text{Alan}(\text{BCD})$  kaç  $\text{cm}^2$  dir?

- A) 40 B) 45 C) 50 D) 60 E) 75

12.

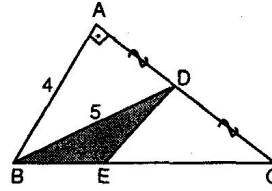


ABC bir üçgen  
 $|BE| = |EF| = |FC|$   
 $|DC| = 2|AD|$   
 $\text{A}(\text{ABC}) = 9 \text{ cm}^2$

Yukarıdaki verilere göre,  $\text{Alan}(\text{EDF})$  kaç  $\text{cm}^2$  dir?

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

13.

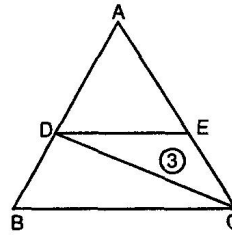


BAC bir dik üçgen  
 $|AD| = |DC|$   
 $|EC| = 2|BE|$   
 $|AB| = 4 \text{ cm}$   
 $|BD| = 5 \text{ cm}$

Yukarıdaki verilere göre,  $\text{Alan}(\text{BED})$  kaç  $\text{cm}^2$  dir?

- A) 1 B) 2 C) 3 D) 4 E) 6

14.

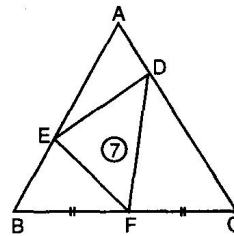


ABC bir üçgen  
 $|DE| \parallel |BC|$   
 $|AD| = 3|DB|$   
 $\text{Alan}(\text{DEC}) = 3 \text{ cm}^2$

Yukarıdaki verilere göre,  $\text{A}(\text{ABC})$  kaç  $\text{cm}^2$  dir?

- A) 20 B) 16 C) 15 D) 12 E) 9

15.

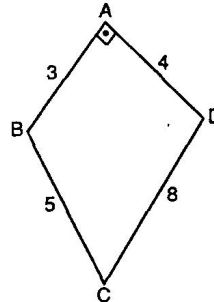


ABC bir üçgen  
 $|DC| = 3|AD|$   
 $|AE| = 2|EB|$   
 $|BF| = |FC|$   
 $\text{Alan}(\text{DEF}) = 7 \text{ cm}^2$

Yukarıdaki verilere göre,  $\text{Alan}(\text{ABC})$  kaç  $\text{cm}^2$  dir?

- A) 35 B) 28 C) 24 D) 21 E) 14

16.



Düzlemsel şekilde  
 $|BA| \perp |AD|$   
 $|AB| = 3 \text{ cm}$   
 $|AD| = 4 \text{ cm}$   
 $|BC| = 5 \text{ cm}$   
 $|CD| = 8 \text{ cm}$

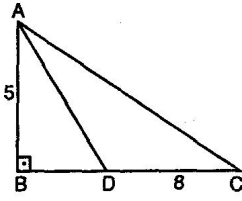
Yukarıdaki verilere göre,  $\text{Alan}(\text{ABCD})$  kaç  $\text{cm}^2$  dir?

- A) 24 B) 20 C) 18 D) 16 E) 12

## ÜÇGENLERDE UZUNLUK ve ALAN

## Konu Kavrama Testi - 2

1.

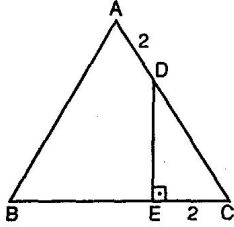


ABC bir dik üçgen  
 $|AB| = 5$  cm  
 $|DC| = 8$  cm

Yukarıdaki verilere göre, Alan(ADC) kaç  $\text{cm}^2$  dir?

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

2.



ABC bir eşkenar üçgen  
 $[DE] \perp [BC]$   
 $|AD| = |EC| = 2$  cm

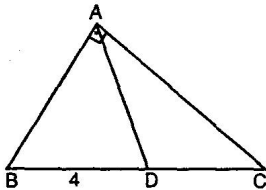
Yukarıdaki verilere göre, Alan(ABC) kaç  $\text{cm}^2$  dir?

- A)  $15\sqrt{3}$  B)  $12\sqrt{3}$  C)  $9\sqrt{3}$  D)  $6\sqrt{3}$  E)  $3\sqrt{3}$

3. Bir ikizkenar dik üçgeninin hipotenüs 12 cm olduğuna göre, alanı kaç  $\text{cm}^2$  dir?

- A) 48 B) 36 C) 30 D) 24 E) 18

4.

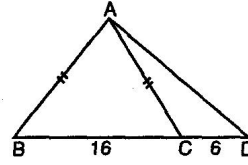


BAC bir dik üçgen  
 ABD bir eşkenar üçgen  
 $|BD| = 4$  cm

Yukarıdaki verilere göre, Alan(ADC) kaç  $\text{cm}^2$  dir?

- A)  $12\sqrt{3}$  B)  $8\sqrt{3}$  C)  $6\sqrt{3}$  D)  $4\sqrt{3}$  E)  $2\sqrt{3}$

5.

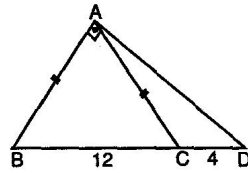


ABD bir üçgen  
 $|AB| = |AC| = 17$  cm  
 $|BC| = 16$  cm  
 $|CD| = 6$  cm

Yukarıdaki verilere göre, Alan(ACD) kaç  $\text{cm}^2$  dir?

- A) 45 B) 40 C) 35 D) 30 E) 15

6.

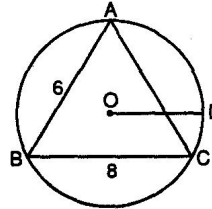


ABD bir üçgen  
 $[BA] \perp [AC]$   
 $|AB| = |AC|$   
 $|BC| = 12$  cm  
 $|CD| = 4$  cm

Yukarıdaki verilere göre, Alan(ACD) kaç  $\text{cm}^2$  dir?

- A) 48 B) 36 C) 32 D) 24 E) 12

7.

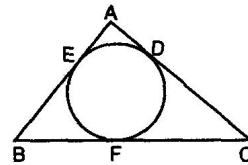


ABC bir üçgen  
 O, çevrel çemberin merkezi  
 $|AB| = 6$  cm  
 $|BC| = 8$  cm  
 $|OD| = 4$  cm  
 Alan(ABC) =  $24 \text{ cm}^2$

Yukarıdaki verilere göre, |AC| kaç cm dir?

- A) 10 B) 8 C) 6 D) 4 E) 3

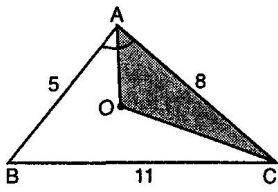
8.

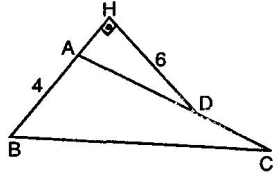


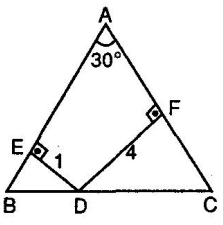
ABC bir üçgen  
 $\text{Çevre}(ABC) = 54$  cm  
 $\text{Alan}(ABC) = 27 \text{ cm}^2$

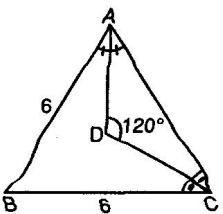
Yukarıdaki verilere göre, iç teğet çemberin yarıçapı kaç cm dir?

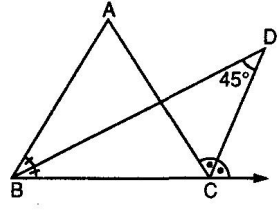
- A)  $\frac{1}{2}$  B) 1 C)  $\frac{3}{2}$  D) 2 E)  $\frac{5}{2}$

9.  ABC bir üçgen  
O, iç teğet  
çemberin merkezi  
 $|AB| = 5$  cm  
 $|AC| = 8$  cm  
 $|BC| = 11$  cm
- Yukarıdaki verilere göre,  $\frac{\text{Alan}(\text{AOC})}{\text{Alan}(\text{ABC})}$  oranı kaçtır?
- A)  $\frac{5}{24}$  B)  $\frac{1}{4}$  C)  $\frac{7}{24}$  D)  $\frac{1}{3}$  E)  $\frac{5}{24}$

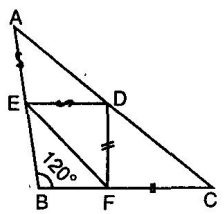
10.  ABC bir üçgen  
 $[DH] \perp [HB]$   
 $|AD| = 2|DC|$   
 $|AB| = 4$  cm  
 $|DH| = 6$  cm
- Yukarıdaki verilere göre, Alan(ABC) kaç  $\text{cm}^2$  dir?
- A) 12 B) 15 C) 18 D) 21 E) 24

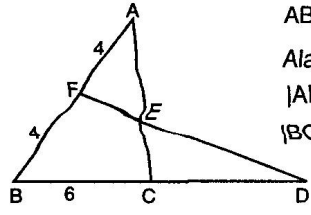
11.  ABC bir ikizkenar üçgen  
 $|AB| = |AC|$   
 $m(\widehat{BAC}) = 30^\circ$   
 $[DE] \perp [AB]$   
 $[DF] \perp [AC]$   
 $|DE| = 1$  cm  
 $|DF| = 4$  cm
- Yukarıdaki verilere göre, Alan(ABC) kaç  $\text{cm}^2$  dir?
- A) 50 B) 35 C) 25 D) 20 E) 15

12.  ABC bir üçgen  
 $[AD]$  ve  $[CD]$ ,  
açıortaylar  
 $m(\widehat{ADC}) = 120^\circ$   
 $|AB| = |BC| = 6$  cm
- Yukarıdaki verilere göre, Alan(ABC) kaç  $\text{cm}^2$  dir?
- A)  $18\sqrt{3}$  B)  $15\sqrt{3}$  C)  $12\sqrt{3}$   
D)  $9\sqrt{3}$  E)  $6\sqrt{3}$

13.  ABC bir üçgen  
 $[BD]$ , iç açıortay  
 $[CD]$ , dış açıortay  
 $m(\widehat{BDC}) = 45^\circ$   
 $|AB| = 4$  cm  
 $|AC| = 5$  cm
- Yukarıdaki verilere göre, Alan(ABC) kaç  $\text{cm}^2$  dir?
- A) 20 B) 16 C) 12 D) 10 E) 5

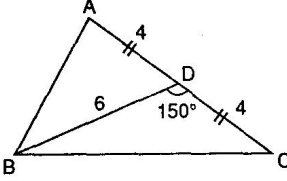
14. Yüksekliği 9 cm olan bir eşkenar üçgenin çevresi kaç cm dir?
- A)  $36\sqrt{3}$  B)  $27\sqrt{3}$  C)  $18\sqrt{3}$   
D)  $15\sqrt{3}$  E)  $9\sqrt{3}$

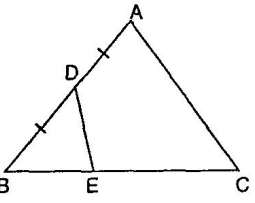
15.  ABC bir üçgen  
 $m(\widehat{BAC}) = 120^\circ$   
 $|AE| = |ED| = \sqrt{3}$  cm  
 $|FC| = |FD| = 4$  cm
- Yukarıdaki verilere göre, Alan(DEF) kaç  $\text{cm}^2$  dir?
- A) 6 B) 5 C) 4 D) 3 E) 2

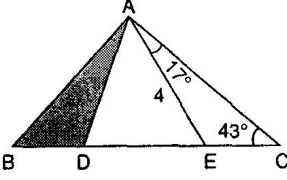
16.  ABC ve BDF birer üçgen  
 $\text{Alan}(\text{ABC}) = \text{Alan}(\text{BDF})$   
 $|AF| = |FB| = 4$  cm  
 $|BC| = 6$  cm
- Yukarıdaki verilere göre,  $|CD|$  kaç cm dir?
- A) 4 B) 5 C) 6 D) 8 E) 10

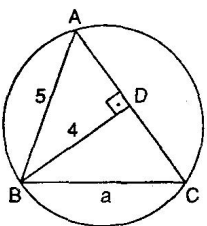
# ÜÇGENLERDE UZUNLUK ve ALAN

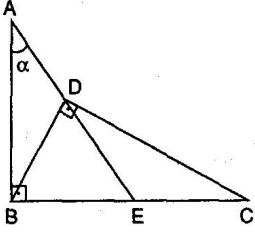
## Konu Uygulama Testi - 1

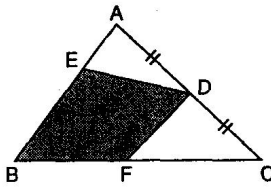
1.  ABC bir üçgen  
 $m(\widehat{BDC}) = 150^\circ$   
 $|AD| = |DC| = 4 \text{ cm}$   
 $|BD| = 6 \text{ cm}$   
 Yukarıdaki verilere göre, Alan(ABC) kaç  $\text{cm}^2$  dir?  
 A) 6 B) 8 C) 12 D) 14 E) 16

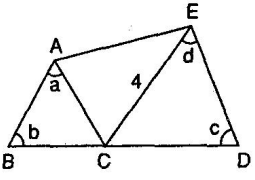
2.  ABC bir üçgen  
 $|EC| = 3|BE|$   
 $|AD| = |DB|$   
 Yukarıdaki verilere göre,  $\frac{A(ADEC)}{A(BDE)}$  oranı kaçtır?  
 A) 8 B) 7 C) 6 D) 5 E) 4

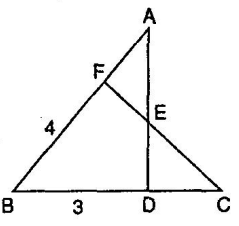
3.  ABC bir üçgen  
 $m(\widehat{ACB}) = 43^\circ$   
 $m(\widehat{EAC}) = 17^\circ$   
 $|AE| = 4 \text{ cm}$   
 $|BD| = 2\sqrt{3} \text{ cm}$   
 Yukarıdaki verilere göre, Alan(ABD) kaç  $\text{cm}^2$  dir?  
 A)  $6\sqrt{3}$  B)  $3\sqrt{3}$  C) 6 D) 12 E)  $9\sqrt{3}$

4.  ABC bir üçgen  
 $|BD| \perp |AC|$   
 $|AB| = 5 \text{ cm}$   
 $|BD| = 4 \text{ cm}$   
 Yukarıdaki şekilde çevrel çemberin çapı 7,5 cm olduğuna göre,  $|BC| = a$  kaç cm dir?  
 A) 4 B) 5 C) 6 D) 7 E) 8

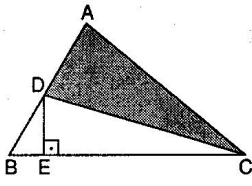
5.  ABE ve BDC birer dik üçgen  
 Yukarıdaki şekilde ABD, BED ve DEC üçgenlerinin alanları eşit olduğuna göre,  $m(\widehat{BAE}) = \alpha$  kaç derecedir?  
 A) 15 B) 30 C) 45 D) 60 E) 75

6.  ABC bir üçgen  
 $|AD| = |DC|$   
 $|BE| = 2|AE|$   
 $3|BF| = 2|FC|$   
 $A(ABC) = 30 \text{ cm}^2$   
 Yukarıdaki verilere göre, Alan(BFDE) kaç  $\text{cm}^2$  dir?  
 A) 15 B) 16 C) 18 D) 20 E) 24

7.  Düzlemsel şekilde  
 B, C, D doğrusal  
 $a + b + c + d = 240^\circ$   
 $|AC| = \sqrt{3} \text{ cm}$   
 $|EC| = 4 \text{ cm}$   
 Yukarıdaki verilere göre, Alan(ACE) kaç  $\text{cm}^2$  dir?  
 A) 1 B) 2 C) 3 D) 4 E) 6

8.  ABD ve BCF birer üçgen  
 Alan(ABD) = Alan(BCF)  
 $|BD| = 3 \text{ cm}$   
 $|BF| = 4 \text{ cm}$   
 $|FA| = 2 \text{ cm}$   
 Yukarıdaki verilere göre,  $|DC|$  kaç cm dir?  
 A) 3 B)  $\frac{5}{2}$  C) 2 D)  $\frac{3}{2}$  E) 1

9.



ABC bir üçgen

$$[DE] \perp [BC]$$

$$|BE| = 1 \text{ cm}$$

$$|AD| = 2\sqrt{5} \text{ cm}$$

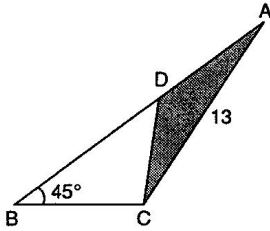
$$|BD| = \sqrt{5} \text{ cm}$$

$$\frac{A(DEC)}{A(BDE)} = \frac{8}{3}$$

Yukarıdaki verilere göre, Alan(ADC) kaç  $\text{cm}^2$  dir?

- A)  $\frac{5}{3}$  B)  $\frac{8}{3}$  C)  $\frac{4}{3}$  D)  $\frac{10}{3}$  E)  $\frac{22}{3}$

10.



ABC bir üçgen

$$m(\widehat{ABC}) = 45^\circ$$

$$2|BD| = 3|AD|$$

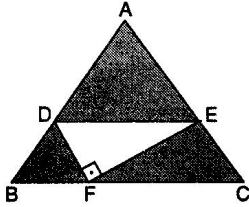
$$|BC| = 5\sqrt{2} \text{ cm}$$

$$|AC| = 13 \text{ cm}$$

Yukarıdaki verilere göre, Alan(ADC) kaç  $\text{cm}^2$  dir?

- A) 13 B) 15 C) 17 D) 18 E) 20

11.



ABC bir üçgen

$$[DF] \perp [FE]$$

$$[DE] \parallel [BC]$$

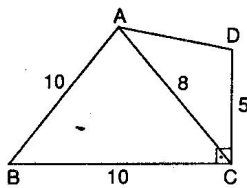
$$|AE| = 2|EC|$$

$$|DF| = 6 \text{ cm}$$

Yukarıdaki şekilde taralı alanlar toplamı  $84 \text{ cm}^2$  olduğuna göre,  $|DE|$  kaç cm dir?

- A) 8 B) 10 C)  $6\sqrt{3}$  D)  $6\sqrt{2}$  E)  $3\sqrt{5}$

12.



Düzlemsel şekilde

$$[BC] \perp [CD]$$

$$|AB| = |BC| = 10 \text{ cm}$$

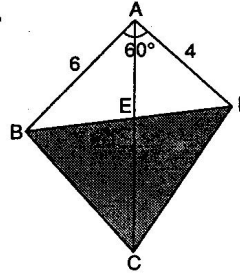
$$|AC| = 8 \text{ cm}$$

$$|DC| = 5 \text{ cm}$$

Yukarıdaki verilere göre, Alan(ACD) kaç  $\text{cm}^2$  dir?

- A) 4 B) 8 C) 12 D) 16 E) 18

13.



ABD ve BCD birer üçgen

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

$$|EC| = 3|AE|$$

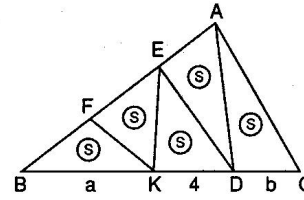
$$|AB| = 6 \text{ cm}$$

$$|AD| = 4 \text{ cm}$$

Yukarıdaki verilere göre, Alan(BCD) kaç  $\text{cm}^2$  dir?

- A)  $9\sqrt{3}$  B)  $12\sqrt{3}$  C)  $15\sqrt{3}$  D)  $18\sqrt{3}$  E) 36

14.



ABC bir üçgen

$$|BK| = a$$

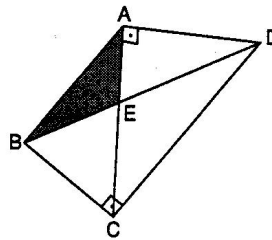
$$|DC| = b$$

$$|KD| = 4 \text{ cm}$$

Yukarıdaki şekilde ABC üçgeni içine çizilen üçgenlerin alanları eşit olduğuna göre,  $a + b$  toplamı kaç cm dir?

- A) 8 B) 9 C) 11 D) 12 E) 15

15.



CAD ve BCD birer dik üçgen

$$|CE| = |ED|$$

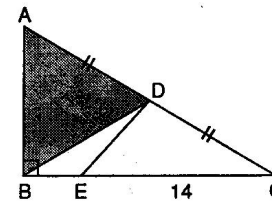
$$|AD| = 2\sqrt{3} \text{ cm}$$

$$|AE| = 2 \text{ cm}$$

Yukarıdaki verilere göre, Alan(ABE) kaç  $\text{cm}^2$  dir?

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

16.



ABC bir dik üçgen

$$|AD| = |DC|$$

$$|AB| = |DE| = 4\sqrt{3} \text{ cm}$$

$$|EC| = 14 \text{ cm}$$

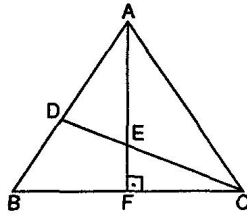
Yukarıdaki verilere göre, Alan(ABD) kaç  $\text{cm}^2$  dir?

- A) 36 B) 32 C)  $32\sqrt{3}$  D) 16 E)  $16\sqrt{3}$

# ÜÇGENLERDE UZUNLUK ve ALAN

## Konu Uygulama Testi - 2

1.

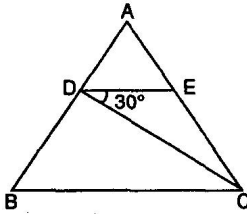


ABC bir eşkenar üçgen  
 $[AF] \perp [BC]$   
 $|AF| = 6 \text{ cm}$   
 $|DB| = 2 \text{ cm}$

Yukarıdaki verilere göre, Alan(DCB) kaç  $\text{cm}^2$  dir?

- A) 3 B) 4 C) 6 D) 8 E) 9

2.

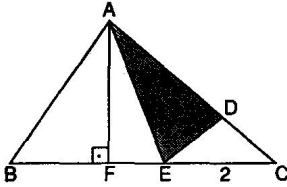


ABC bir eşkenar üçgen  
 $[DE] \parallel [BC]$   
 $m(\widehat{EDC}) = 30^\circ$   
 $|ED| = 1 \text{ cm}$

Yukarıdaki verilere göre, Alan(ABC) kaç  $\text{cm}^2$  dir?

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

3.

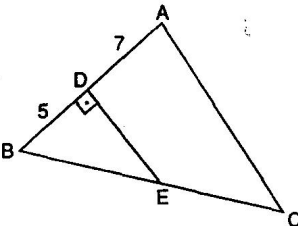


ABC bir üçgen  
 $[AF] \perp [BC]$   
 $|AD| = 3|DC|$   
 $|EC| = 2 \text{ cm}$   
 $|EF| = 1 \text{ cm}$   
 $|AE| = \sqrt{5} \text{ cm}$

Yukarıdaki verilere göre, Alan(AED) kaç  $\text{cm}^2$  dir?

- A)  $\frac{4}{3}$  B)  $\frac{3}{2}$  C)  $\frac{6}{5}$  D) 1 E) 2

4.

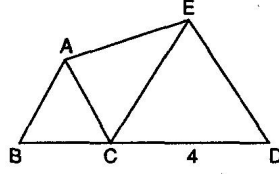


ABC bir üçgen  
 $[ED] \perp [AB]$   
 $|BE| = |EC| = 13 \text{ cm}$   
 $|AD| = 7 \text{ cm}$   
 $|BD| = 5 \text{ cm}$

Yukarıdaki verilere göre, Alan(ABC) kaç  $\text{cm}^2$  dir?

- A) 72 B) 108 C) 114 D) 144 E) 152

5.

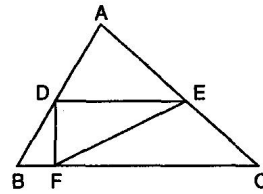


Düzlemsel şekilde  
 B, C, D doğrusal  
 ABC ve CDE birer  
 eşkenar üçgen  
 $|CD| = 4 \text{ cm}$   
 $|BC| = 2 \text{ cm}$

Yukarıdaki verilere göre, Alan(ABDE) kaç  $\text{cm}^2$  dir?

- A)  $5\sqrt{3}$  B)  $6\sqrt{3}$  C)  $7\sqrt{3}$  D)  $9\sqrt{3}$  E)  $11\sqrt{3}$

6.

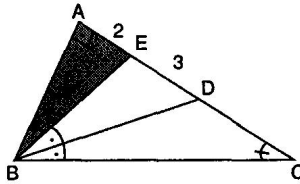


ABC bir üçgen  
 $[DE] \parallel [BC]$   
 $|AD| = |BD|$   
 Alan(DEF) =  $3 \text{ cm}^2$

Yukarıdaki verilere göre, Alan(ABC) kaç  $\text{cm}^2$  dir?

- A) 6 B) 9 C) 12 D) 15 E) 18

7.

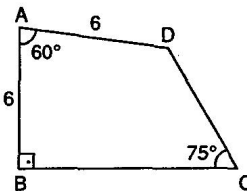


BAC bir dik üçgen  
 $m(\widehat{ABE}) = m(\widehat{ACB})$   
 $m(\widehat{EBD}) = m(\widehat{DBC})$   
 $|AE| = 2 \text{ cm}$   
 $|ED| = 3 \text{ cm}$

Yukarıdaki verilere göre, Alan(ABE) kaç  $\text{cm}^2$  dir?

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

8.

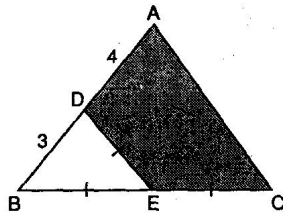


Düzlemsel şekilde  
 $[AB] \perp [BC]$   
 $m(\widehat{BAD}) = 60^\circ$   
 $m(\widehat{BCD}) = 75^\circ$   
 $|AB| = |AD| = 6 \text{ cm}$

Yukarıdaki verilere göre, Alan(ABCD) kaç  $\text{cm}^2$  dir?

- A)  $9(\sqrt{3} + 1)$  B)  $9\sqrt{3} + 3$  C)  $9\sqrt{3} + 5$   
 D)  $9\sqrt{3} + 12$  E)  $9\sqrt{3} + 6$

9.

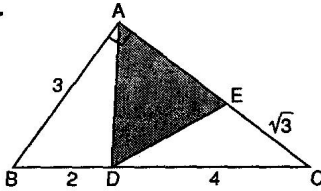


ABC bir üçgen  
 $|BE| = |EC| = |ED|$   
 $|AD| = 4$  cm  
 $|BD| = 3$  cm  
 $|BC| = 5$  cm

Yukarıdaki verilere göre, Alan(ADEC) kaç  $\text{cm}^2$  dir?

- A) 8 B) 10 C) 11 D) 15 E) 16

10.

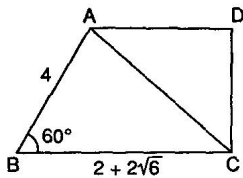


BAC bir dik üçgen  
 $|AB| = 3$  cm  
 $|DC| = 4$  cm  
 $|BD| = 2$  cm  
 $|EC| = \sqrt{3}$  cm

Yukarıdaki verilere göre, Alan(ADE) kaç  $\text{cm}^2$  dir?

- A)  $\frac{9\sqrt{3}}{2}$  B)  $\frac{9\sqrt{3}}{4}$  C)  $2\sqrt{3}$  D)  $3\sqrt{3}$  E)  $4\sqrt{3}$

11.

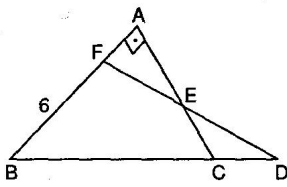


Düzlemsel şekilde  
 $m(\angle ABC) = 60^\circ$   
 $|AD| = |DC| = 5$  cm  
 $|AB| = 4$  cm  
 $|BC| = 2 + 2\sqrt{6}$  cm

Yukarıdaki verilere göre, Alan(ACD) kaç  $\text{cm}^2$  dir?

- A) 12 B) 16 C) 18 D) 20 E) 24

12.

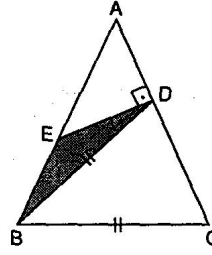


BDF bir üçgen  
 BAC bir dik üçgen  
 $|AF| = \sqrt{5}$  cm  
 $|FE| = 3$  cm  
 $|ED| = 1$  cm  
 $|BF| = 6$  cm

Yukarıdaki verilere göre, Alan(BDF) kaç  $\text{cm}^2$  dir?

- A) 4 B) 6 C) 8 D) 12 E) 16

13.

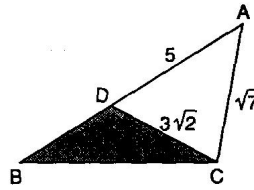


ABC bir ikizkenar üçgen  
 $|AB| = |AC|$   
 $|ED| \perp |AC|$   
 $|BC| = |BD|$   
 $|BE| = |ED| = \sqrt{2}$  cm

Yukarıdaki verilere göre, Alan(BED) kaç  $\text{cm}^2$  dir?

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

14.

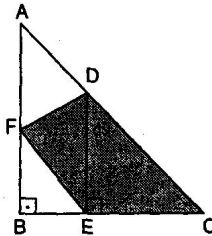


ABC bir üçgen  
 $|AD| = 5$  cm  
 $|DB| = \sqrt{14}$  cm  
 $|DC| = 3\sqrt{2}$  cm  
 $|AC| = \sqrt{7}$  cm

Yukarıdaki verilere göre, Alan(BCD) kaç  $\text{cm}^2$  dir?

- A)  $\frac{21}{5}$  B)  $\frac{18}{5}$  C)  $\frac{24}{5}$  D)  $\frac{32}{5}$  E) 3

15.

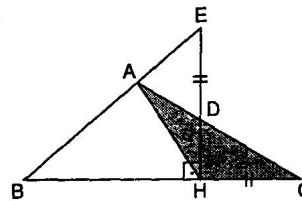


ABC ve DEC birer  
 dik üçgen  
 $|EC| = 4$  cm  
 $|BE| = 2$  cm  
 $|DE| = 3$  cm

Yukarıdaki verilere göre, taralı CDFE dörtgeni-  
 nin alanı kaç  $\text{cm}^2$  dir?

- A) 6 B) 9 C) 12 D) 15 E) 18

16.



ABC bir  
 ikizkenar üçgen  
 B, A, E doğrusal  
 $|AB| = |AC|$   
 $|EH| \perp |BC|$   
 $|DH| = 1$  cm  
 $|ED| = |HC| = 4$  cm

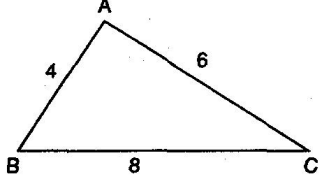
Yukarıdaki verilere göre, Alan(AHC) kaç  $\text{cm}^2$  dir?

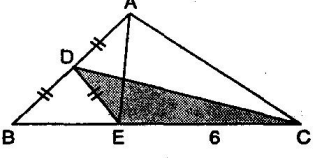
- A) 4 B) 5 C) 6 D) 8 E) 10

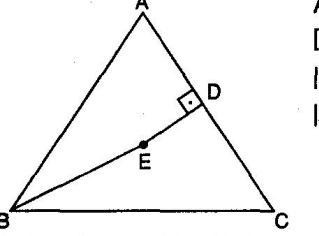


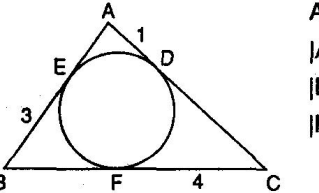
# ÜÇGENLERDE UZUNLUK ve ALAN

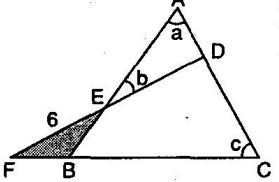
## Konu Uygulama Testi - 3

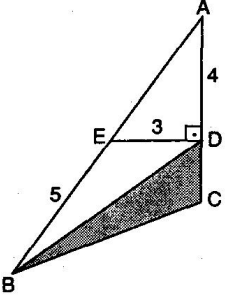
1.  ABC bir üçgen  
 $|AC| = 6$  cm  
 $|BC| = 8$  cm  
 $|AB| = 4$  cm  
 Yukarıdaki verilere göre, Alan(ABC) kaç  $\text{cm}^2$  dir?  
 A)  $3\sqrt{5}$  B)  $2\sqrt{15}$  C)  $3\sqrt{15}$  D) 8 E)  $5\sqrt{3}$

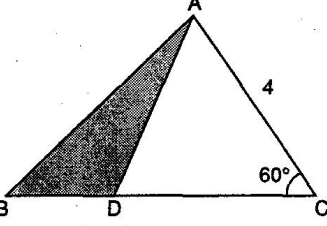
2.  ABC bir üçgen  
 $|AD| = |DB| = |DE|$   
 $|EC| = 6$  cm  
 $|AE| = 4$  cm  
 Yukarıdaki verilere göre, Alan(DEC) kaç  $\text{cm}^2$  dir?  
 A) 6 B) 9 C) 12 D) 15 E) 18

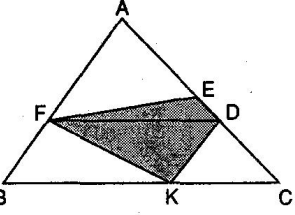
3.  ABC bir üçgen  
 $|ED| \perp |AC|$   
 $|ED| = 2\sqrt{3}$  cm  
 $|AC| = 4$  cm  
 Yukarıdaki şekilde E, kenar orta dikmelerin kesişim noktası olduğuna göre,  $|BE|$  kaç cm dir?  
 A) 2 B)  $2\sqrt{3}$  C) 4 D)  $4\sqrt{3}$  E) 6

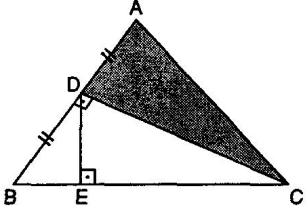
4.  ABC bir üçgen  
 $|AD| = 1$  cm  
 $|EB| = 3$  cm  
 $|FC| = 4$  cm  
 Yukarıdaki verilere göre, iç teğet çemberin yarıçapı kaç cm dir?  
 A)  $2\sqrt{6}$  B)  $\sqrt{6}$  C)  $\frac{\sqrt{6}}{2}$  D)  $\frac{\sqrt{3}}{2}$  E)  $\frac{\sqrt{6}}{3}$

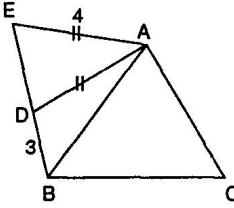
5.  ABC ve CDF birer üçgen  
 $a + b + c = 135^\circ$   
 $|EF| = 6$  cm  
 $|FB| = 2$  cm  
 Yukarıdaki verilere göre, Alan(BEF) kaç  $\text{cm}^2$  dir?  
 A)  $\sqrt{2}$  B)  $2\sqrt{2}$  C)  $3\sqrt{2}$  D)  $4\sqrt{2}$  E) 6

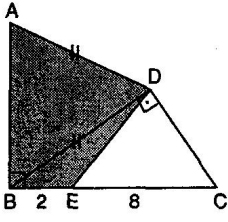
6.  ABC bir üçgen  
 $|ED| \perp |AC|$   
 $|AD| = 4$  cm  
 $|DC| = 2$  cm  
 $|ED| = 3$  cm  
 $|BE| = 5$  cm  
 Yukarıdaki verilere göre, Alan(BCD) kaç  $\text{cm}^2$  dir?  
 A) 4 B) 5 C) 6 D) 8 E) 12

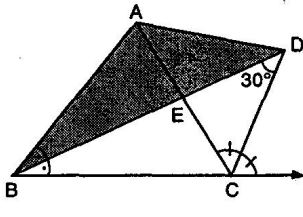
7.  ABC bir üçgen  
 $m(\widehat{ACB}) = 60^\circ$   
 $|DC| = 3|BD|$   
 $|AB| = 4\sqrt{3}$  cm  
 $|AC| = 4$  cm  
 Yukarıdaki verilere göre, Alan(ABD) kaç  $\text{cm}^2$  dir?  
 A)  $\sqrt{3}$  B)  $2\sqrt{3}$  C)  $3\sqrt{3}$  D)  $4\sqrt{3}$  E) 4

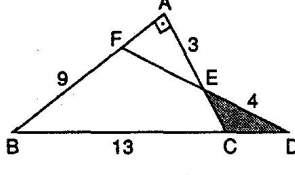
8.  ABC bir üçgen  
 $|FD| \parallel |BC|$   
 $|AE| = |EC|$   
 Alan(DEFK) =  $12 \text{ cm}^2$   
 Yukarıdaki verilere göre, Alan(AFE) kaç  $\text{cm}^2$  dir?  
 A) 6 B) 10 C) 12 D) 16 E) 18

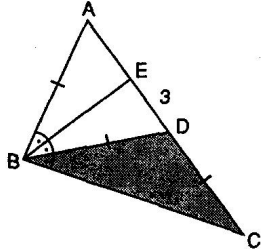
9.  ABC bir üçgen  
 $[DE] \perp [BC]$   
 $[CD] \perp [AB]$   
 $|AD| = |DB|$   
 $|EC| = 8 \text{ cm}$   
 $\text{Alan}(\text{DEC}) = 16 \text{ cm}^2$   
 Yukarıdaki verilere göre,  $\text{Alan}(\text{ADC})$  kaç  $\text{cm}^2$  dir?  
 A)  $8\sqrt{3}$  B) 10 C)  $10\sqrt{3}$  D) 16 E) 20

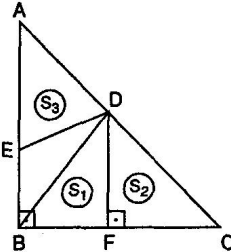
10.  AEB bir üçgen  
 ABC bir eşkenar üçgen  
 $|AE| = |AD| = 4 \text{ cm}$   
 $|BD| = 3 \text{ cm}$   
 Yukarıdaki şekilde kenar uzunlukları tamsayı olan ABC eşkenar üçgeninin alanı kaç  $\text{cm}^2$  dir?  
 A)  $15\sqrt{3}$  B)  $12\sqrt{3}$  C)  $9\sqrt{3}$  D) 9 E)  $6\sqrt{3}$

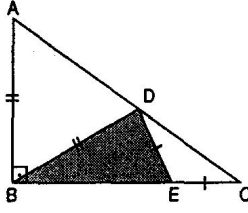
11.  Düzlemsel şekilde  
 BDC bir dik üçgen  
 $[AB] \perp [BC]$   
 $|AD| = |DB|$   
 $|DC| = 2\sqrt{5} \text{ cm}$   
 $|BE| = 2 \text{ cm}$   
 $|EC| = 8 \text{ cm}$   
 Yukarıdaki verilere göre,  $\text{Alan}(\text{ABED})$  kaç  $\text{cm}^2$  dir?  
 A) 40 B) 36 C) 32 D) 30 E) 24

12.  ABC bir üçgen  
 $[BD]$  iç açıortay  
 $[CD]$  dış açıortay  
 $m(\widehat{BDC}) = 30^\circ$   
 $|AB| = 6 \text{ cm}$   
 $|AD| = 4\sqrt{3} \text{ cm}$   
 Yukarıdaki verilere göre,  $\text{Alan}(\text{ABD})$  kaç  $\text{cm}^2$  dir?  
 A) 15 B) 18 C) 21 D) 24 E) 27

13.  Düzlemsel şekilde  
 BDF bir üçgen  
 $[CA] \perp [AB]$   
 $|BF| = 9 \text{ cm}$   
 $|AE| = 3 \text{ cm}$   
 $|ED| = 4 \text{ cm}$   
 $|EC| = 2 \text{ cm}$   
 $|BC| = 13 \text{ cm}$   
 Yukarıdaki verilere göre,  $\text{Alan}(\text{ECD})$  kaç  $\text{cm}^2$  dir?  
 A)  $6\sqrt{2}$  B)  $5\sqrt{2}$  C)  $4\sqrt{2}$  D) 4 E)  $2\sqrt{2}$

14.  ABC bir üçgen  
 $|AB| = |BD| = |DC|$   
 $|ED| = 3 \text{ cm}$   
 Yukarıdaki şekilde işaretli açılar eşit olduğuna göre,  $\text{Alan}(\text{BCD})$  kaç  $\text{cm}^2$  dir?  
 A)  $4\sqrt{3}$  B)  $6\sqrt{3}$  C)  $9\sqrt{3}$  D)  $12\sqrt{3}$  E)  $15\sqrt{3}$

15.  ABC bir dik üçgen  
 $[DF] \perp [BC]$   
 $|BE| = 2 \text{ cm}$   
 $|BF| = 3 \text{ cm}$   
 $\text{Alan}(\text{BDF}) = S_1$   
 $\text{Alan}(\text{DFC}) = S_2$   
 $\text{Alan}(\text{AED}) = S_3$   
 $A(\text{ABC}) = 20 \text{ cm}^2$   
 Yukarıdaki verilere göre,  $S_1 + S_2 + S_3$  toplamı kaç  $\text{cm}^2$  dir?  
 A) 11 B) 13 C) 15 D) 16 E) 17

16.  ABC bir dik üçgen  
 $|AB| = |BD|$   
 $|ED| = |EC|$   
 $|AB| = 4 \text{ cm}$   
 $|DE| = 2 \text{ cm}$   
 Yukarıdaki verilere göre,  $\text{Alan}(\text{BED})$  kaç  $\text{cm}^2$  dir?  
 A) 2 B) 3 C) 4 D) 6 E) 8