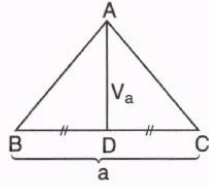


KENARORTAY KONU TARAMA SORULARI

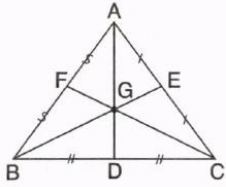
Konu Özeti



Üçgenin bir köşesi ile bu köşenin karşısındaki kenarın orta noktasını birleştiren doğru parçasına **kenarortay** denir ve **V** harfi ile gösterilir.

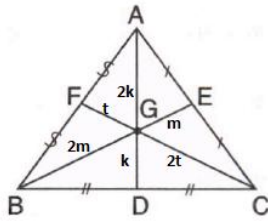
Şekilde $|BD| = |DC|$ olduğu için $[AD]$ kenarortaydır.

V_a : a kenarına ait kenarortay



Bir üçgende kenarortaylar üçgenin içindeki bir noktada kesişir. Bu nokta, üçgensel bölgenin ağırlık merkezidir.

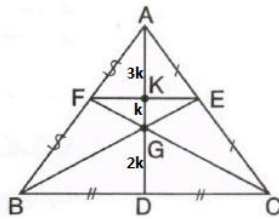
Özellikler:



$$|AG| = 2|GD|$$

$$|BG| = 2|GE|$$

$$|CG| = 2|GF|$$

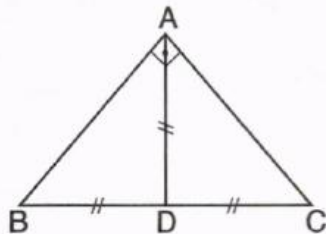


$[FE]$: Orta taban

$$2|AK| = 6|KG| = 3|GD|$$

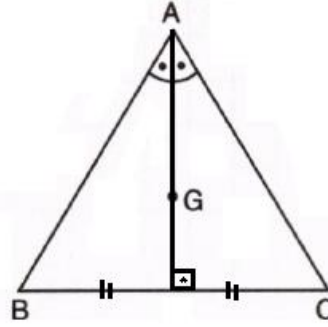
Dik Üçgende Kenarortay

"Muhteşem Üçlü"

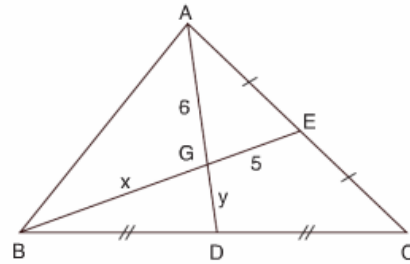


$$|AD| = \frac{|BC|}{2}$$

Açıortay ağırlık merkezinden geçiyorsa kenarı ortalar.



1)

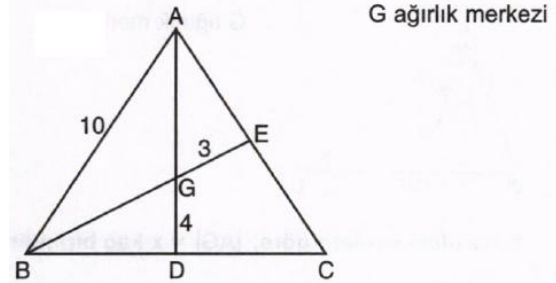


ABC üçgen, $[BE]$ ve $[AD]$ kenarortay,

$|AG| = 6$ cm, $|GE| = 5$ cm, $|BG| = x$ cm, $|GD| = y$ cm'dir.

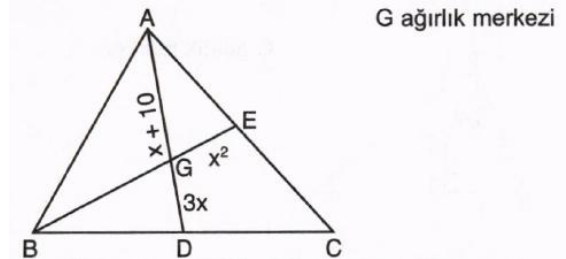
Buna göre, $x + y$ toplamı kaç cm'dir?

2)



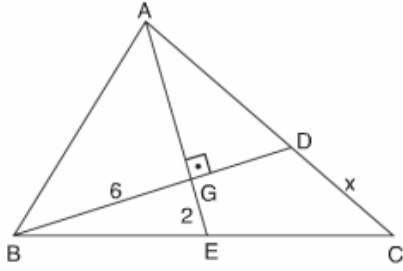
Yukarıda verilere göre, \widehat{ABG} kaç birimdir?

3)



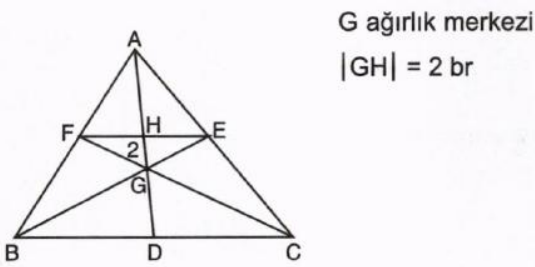
Yukarıdaki verilere göre, $|BG|$ kaç birimdir?

4)



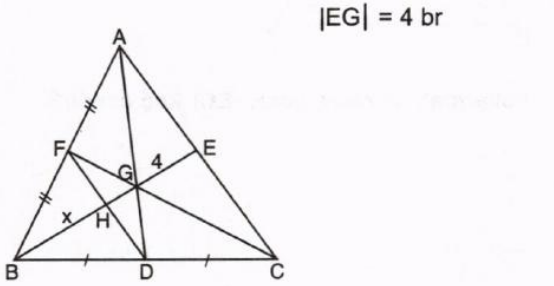
G; ABC üçgensel bölgesinin ağırlık merkezi,
 $[BD] \perp [AE]$, $|BG| = 6$ cm, $|EG| = 2$ cm, $|DC| = x$ cm,
 Buna göre, x kaç cm'dir?

5)



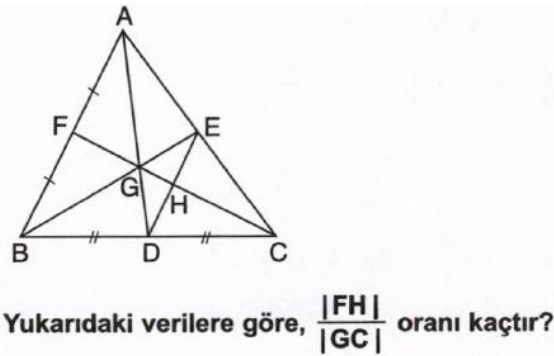
Yukarıdaki verilere göre, $|AD|$ kaç birimdir?

6)



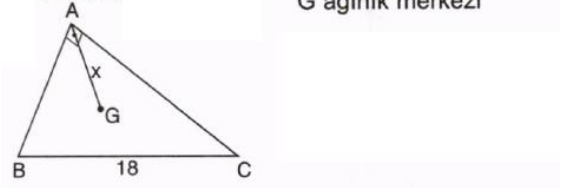
Yukarıdaki verilere göre, $|BH| = x$ kaç birimdir?

7)



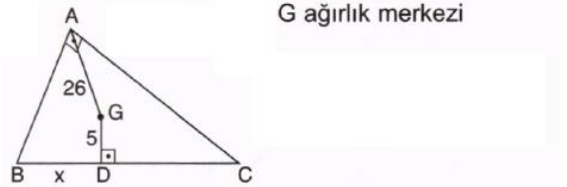
Yukarıdaki verilere göre, $\frac{|FH|}{|GC|}$ oranı kaçtır?

8)



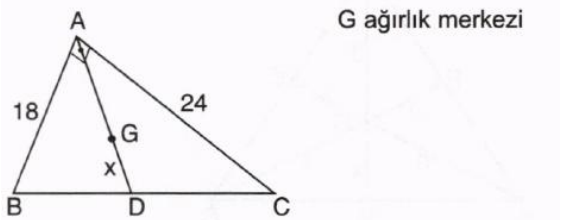
Yukarıdaki verilere göre, $|AG| = x$ kaç birimdir?

9)



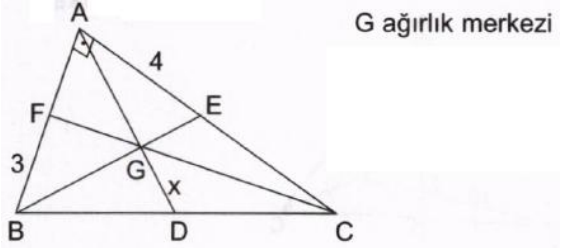
Yukarıdaki verilere göre, $|BD| = x$ kaç birimdir?

10)

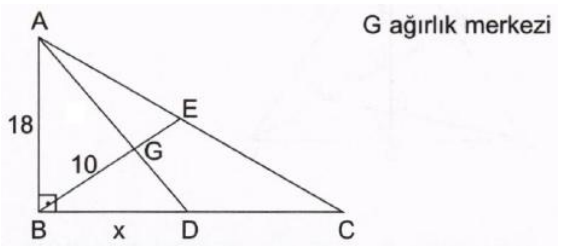


Yukarıdaki verilere göre, $|GD| = x$ kaç birimdir?

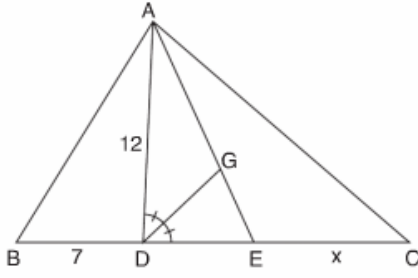
11)



12)



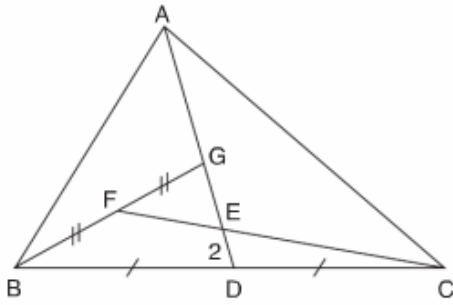
13)



G; ABC üçgeninin kenarortaylarının kesim noktasıdır.
[DG] açıortay, $|AD| = 12$ cm, $|BD| = 7$ cm, $|EC| = x$ cm,

Buna göre, x kaç cm'dir?

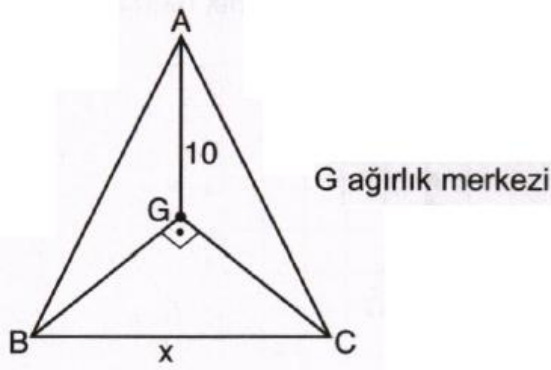
14)



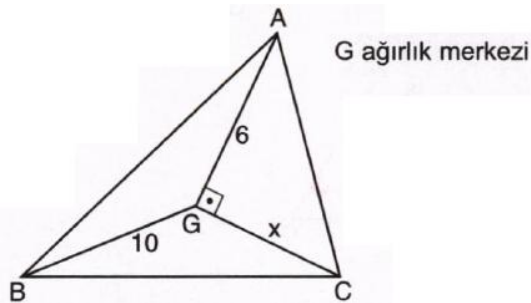
G; ABC üçgensel bölgesinin ağırlık merkezi
[AD] \cap [CF] = {E}, $|ED| = 2$ cm'dir.

Buna göre, |AD| kaç cm'dir?

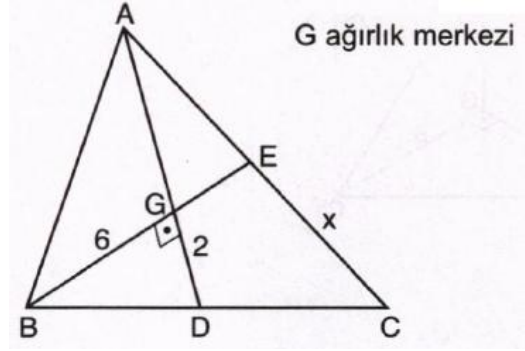
15)



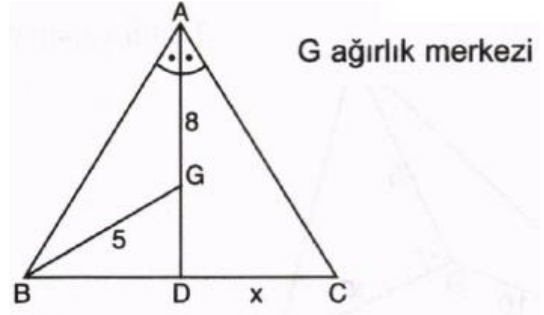
16)



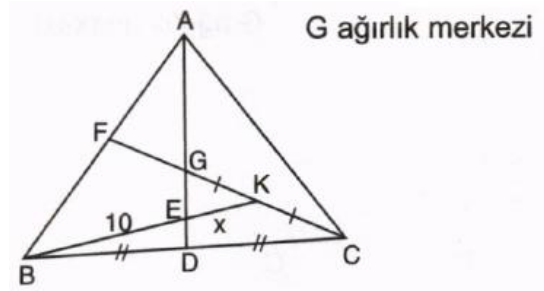
17)



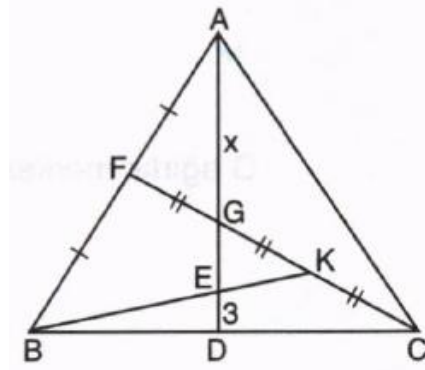
18)



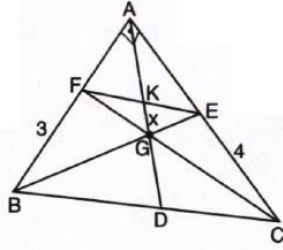
19)



20)



21)

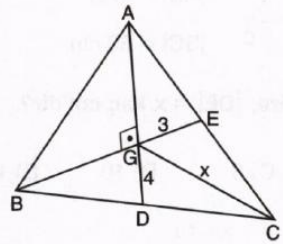


ABC dik üçgen
G ağırlık merkezi
 $|EC| = 4$ br
 $|FB| = 3$ br

Yukarıdaki verilere göre, $|KG| = x$ kaç br'dir?

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

22)

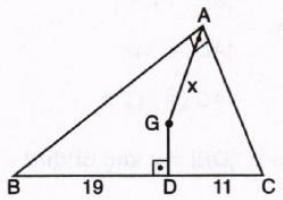


ABC üçgen
G ağırlık merkezi
 $[AG] \perp [BE]$
 $|GE| = 3$ cm
 $|GD| = 4$ cm

Yukarıdaki verilere göre, $|GC| = x$ kaç cm'dir?

- A) 6 B) 8 C) 9 D) 10 E) 12

23)

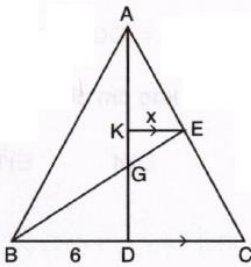


ABC dik üçgen
G ağırlık merkezi
 $[GD] \perp [BC]$
 $|BD| = 19$ cm
 $|DC| = 11$ cm

Yukarıdaki verilere göre, $|AG| = x$ kaç cm'dir?

- A) 5 B) 6 C) 8 D) 10 E) 12

24)

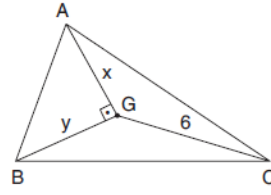


ABC üçgen
G ağırlık merkezi
 $[KE] \parallel [DC]$
 $|BD| = 6$ cm

Yukarıdaki verilere göre, $|KE| = x$ kaç cm'dir?

- A) 1 B) 2 C) 3 D) 4 E) 5

25)



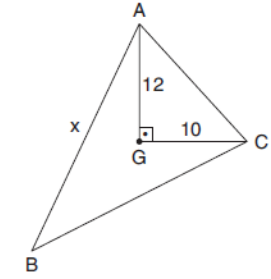
$GA \perp GB$
 $|GC| = 6$ cm
 $|AG| = x$ cm
 $|BG| = y$ cm

ABC nin ağırlık merkezi G noktasıdır.

Buna göre, $x^2 + y^2$ toplamının değeri kaçtır?

- A) 18 B) 24 C) 36 D) 48 E) 72

26)

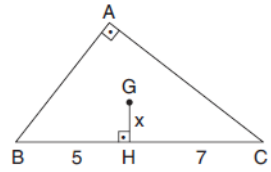


$AG \perp GC$
 $|AG| = 12$ cm
 $|GC| = 10$ cm
 $|AB| = x$
ABC nin ağırlık merkezi G noktasıdır.

Buna göre, x kaç cm dir?

- A) 16 B) 18 C) 20 D) 24 E) 26

27)



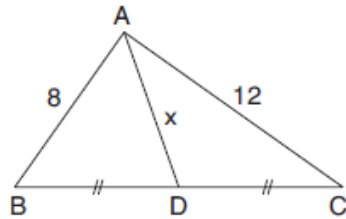
$AB \perp AC$
 $GH \perp BC$
 $|BH| = 5$ cm
 $|HC| = 7$ cm
 $|GH| = x$

ABC nin ağırlık merkezi G noktasıdır.

Buna göre, x kaç cm dir?

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

28)



ABC bir üçgen
 $|AB| = 8$ cm
 $|AC| = 12$ cm
 $|AD| = x$ cm

Yukarıdaki verilere göre, x in en büyük tam sayı değeri kaçtır?

- A) 8 B) 9 C) 10
D) 11 E) 12