Video Anlatım

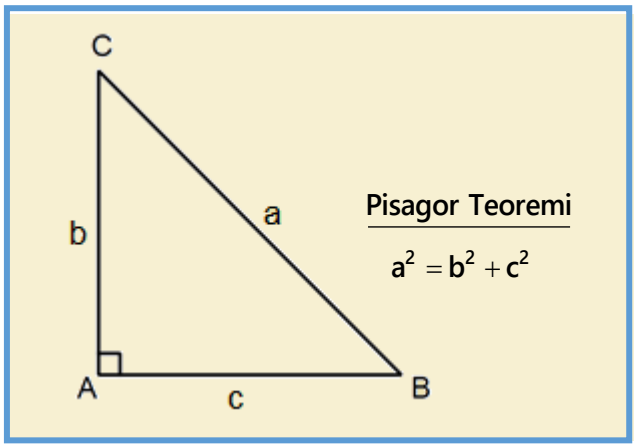
Dik ve Özel Üçgenler

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1- Pisagor Teoremi :

ABC dik üçgen,

$m(\hat{A}) = 90^o$



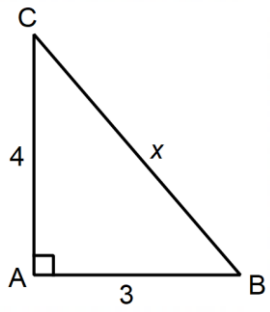
Pisagor Teoremi

$a^2 = b^2 + c^2$

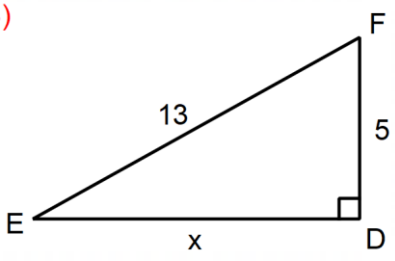
Sorular :

1. Aşağıdaki dik üçgenlerde x uzunluğu kaç birimdir?

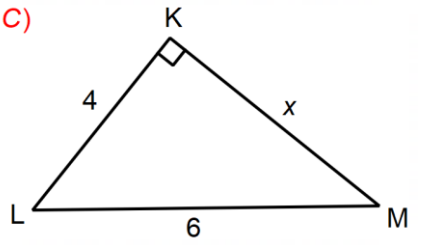
A)



B)

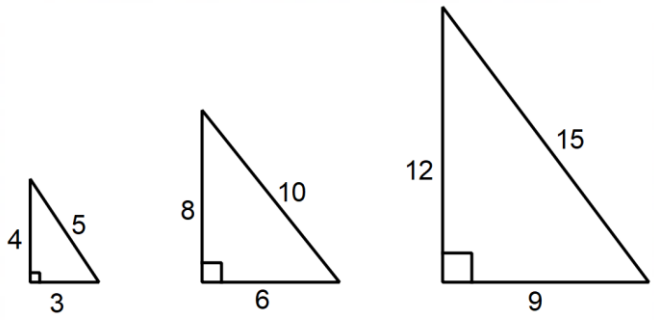


C)



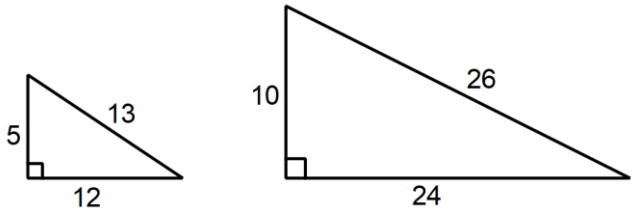
Bazı Özel Dik Üçgenler :

3k, 4k, 5k dik üçgeni



(k=1) (k=2) (k=3)

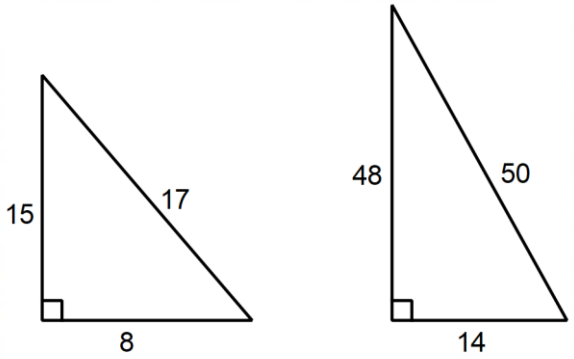
5k, 12k, 13k dik üçgeni



(k=1) (k=2)

8k, 15k, 17k dik üçgeni

7k, 24k, 25k dik üçgeni



(k=1) (k=2)

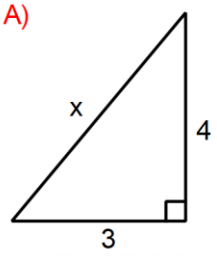
1) A) 5 B) 12 C) $2\sqrt{5}$

Dik ve Özel Üçgenler

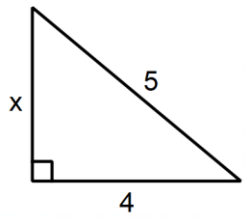
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2. Aşağıdaki dik üçgenlerde x uzunluğunu, özel dik üçgenlerden yararlanarak bulun.
(Pisagor teoremini kullanmadan)

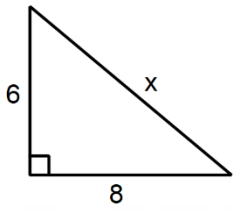
A)



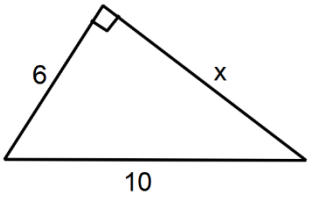
B)



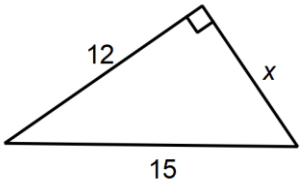
C)



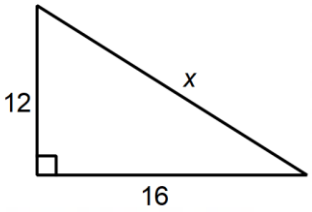
D)



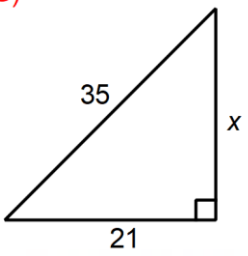
E)



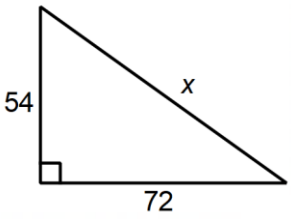
F)



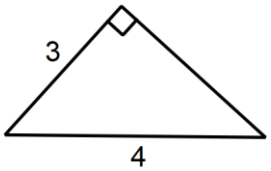
G)



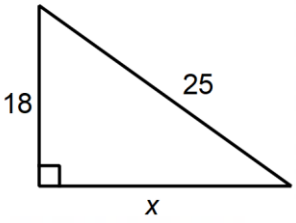
H)



J)

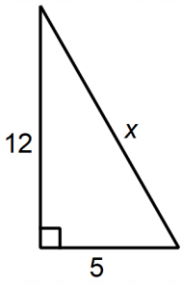


K)

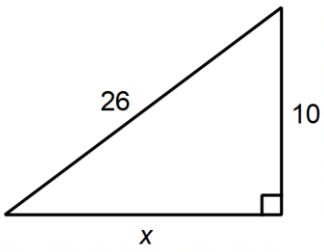


3. Aşağıdaki dik üçgenlerde x uzunluğunu, özel dik üçgenlerden yararlanarak bulun.
(Pisagor teoremini kullanmadan)

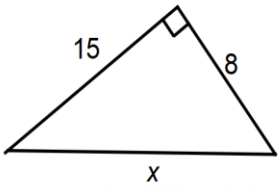
A)



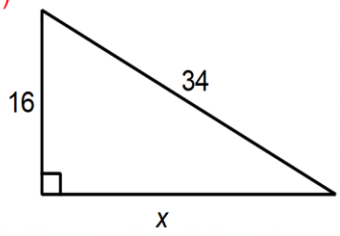
B)



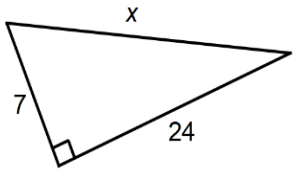
C)



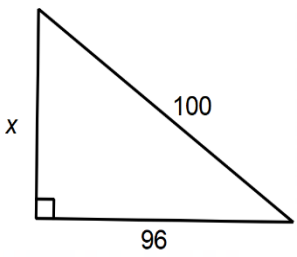
D)



E)

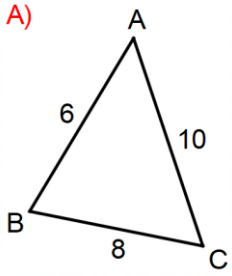


F)

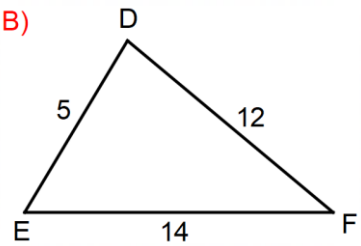


4. Aşağıdaki üçgenlerde varsa dik açıları saptayın.

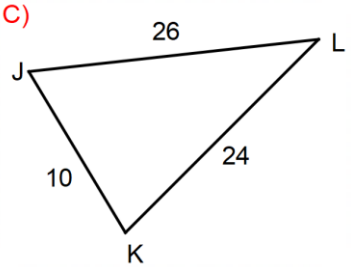
A)



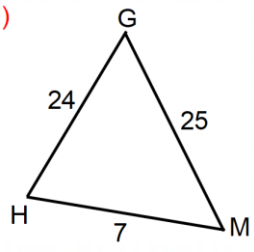
B)



C)



D)



2) A) 5 B) 3 C) 10 D) 8 E) 9 F) 20 G) 28 H) 90
J) Özel dik üçgen değil K) Özel dik üçgen değil

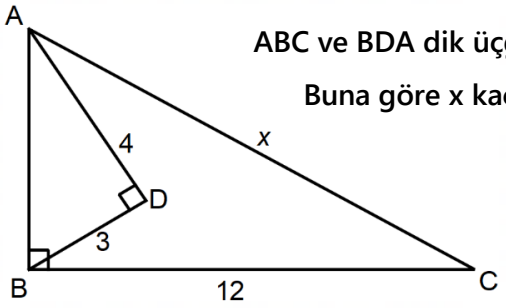
3) A) 13 B) 24 C) 17 D) 30 E) 25 F) 28

4) A) $\hat{B} = 90°$ B) Dik açı yok C) $\hat{K}=90°$ D) $\hat{H}=90°$

Dik ve Özel Üçgenler

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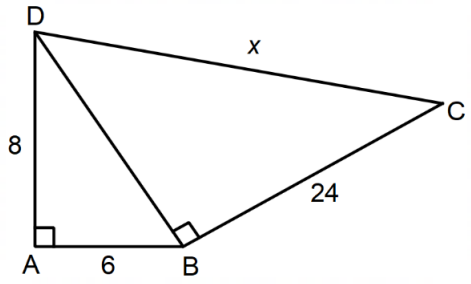
5.



ABC ve BDA dik üçgenlerdir.

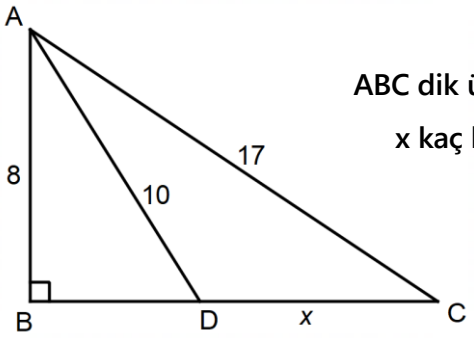
Buna göre x kaç birimdir?

6.



DAB ve DBC dik üçgenler ise x kaç birimdir?

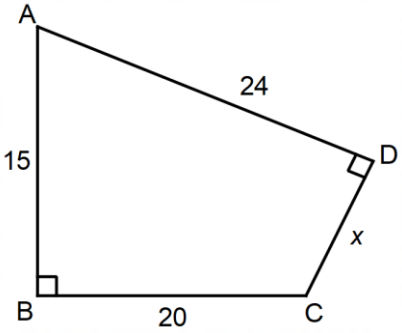
7.



ABC dik üçgen ise

x kaç birimdir?

8.



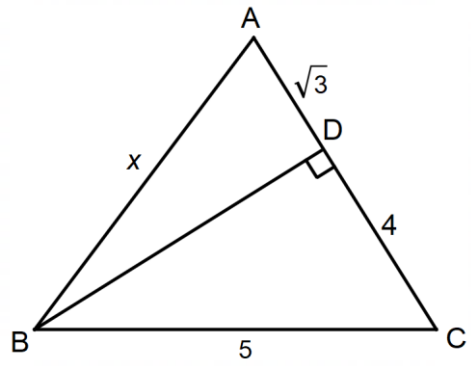
ABCD dörtgeninde

$m(\hat{B}) = 90°$

$m(\hat{D}) = 90°$

ise x kaç birimdir?

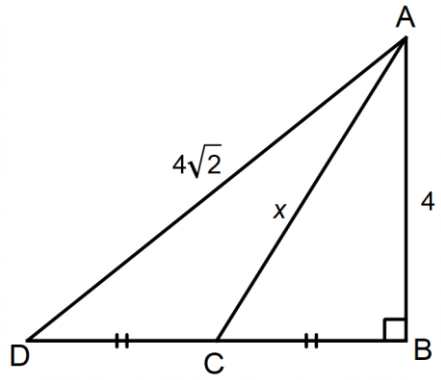
9.



ABC üçgeninde,

$[BD] \perp [AC]$ ise $|AB|$ kaç birimdir?

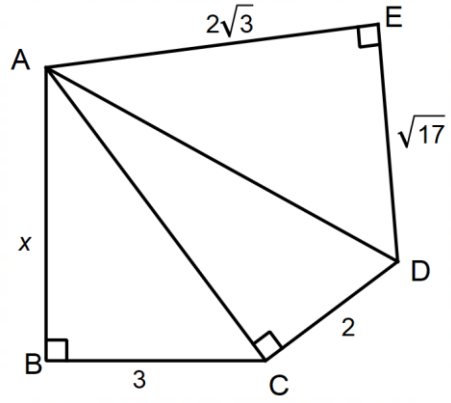
10.



ABD dik üçgeninde,

$|DC| = |CB|$ ise x kaç birimdir?

11.



ABCDE beşgeninde,

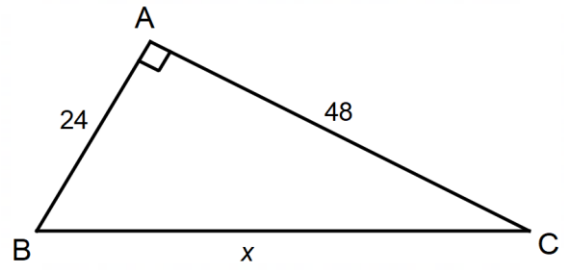
$m(A\hat{B}C) = m(A\hat{C}D) = m(A\hat{E}D) = 90°$

ise x kaç birimdir?

Dik ve Özel Üçgenler

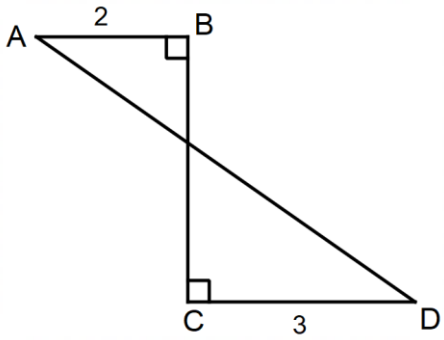
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12.



ABC üçgeninde $m(B\hat{A}C)=90°$ ise hipotenüs kaç birimdir?

13.



$|AB| \perp |BC|$

$|BC| \perp |CD|$

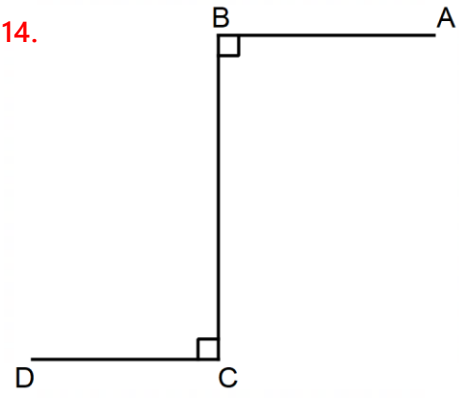
$|AB| = 2$ br

$|CD| = 3$ br

$|BC| = 12$ br

Yukarıda verilenlere göre $[AD]$ kaç birimdir?

14.



$|AB| \perp |BC|$

$|BC| \perp |CD|$

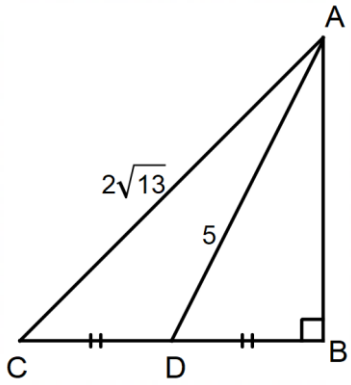
$|AB| = 44$ br

$|CD| = 33$ br

$|BC| = 66$ br

Yukarıda verilenlere göre A ve D noktaları arası en kısa mesafe kaç birimdir?

15.



ABC üçgeninde,

$m(A\hat{B}C) = 90°$

$|CD| = |DB|$

$|AD| = 5$ br

$|AC| = 2\sqrt{13}$ br

$|AB|$ kaç birimdir?

16.

ABC üçgeninde,

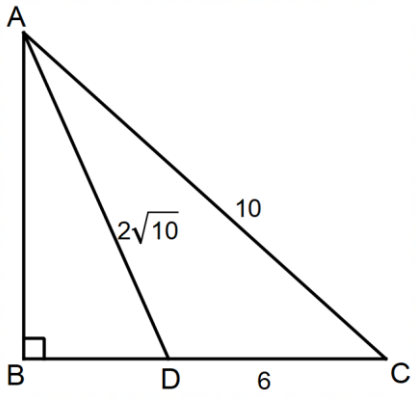
$m(A\hat{B}C) = 90°$

$|AD| = 2\sqrt{10}$ br

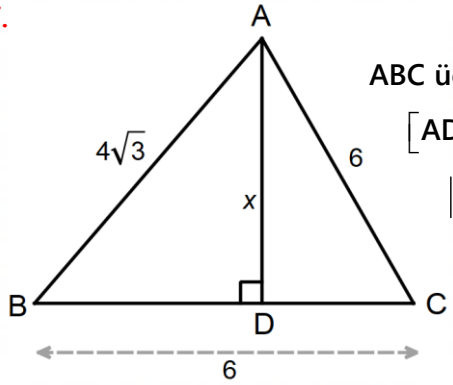
$|AC| = 10$ br

$|CD| = 6$ br

$|BD|$ kaç birimdir?



17.



ABC üçgeninde,

$[AD] \perp [BC]$

$|AB| = 4\sqrt{3}$ br

$|AC| = |BC| = 6$ br

Buna göre $|AD|$ kaç birimdir?

12) $24\sqrt{5}$ 13) 13 14) $11\sqrt{85}$ 15) 4 16) 2 17) $4\sqrt{2}$