YouTube: KAZIM CEYLAN

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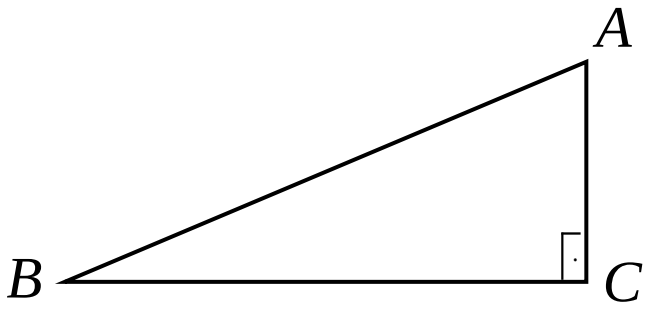
9. SINIF ÖKLİT VE PİSAGOR TEOREMLERİ

PİSAGOR TEOREMİ



ABC üçgeni dik üçgen

$s(C) = 90^O$

$|AB| = c$

$|AC| = b$

$|BC| = a$

olmak üzere

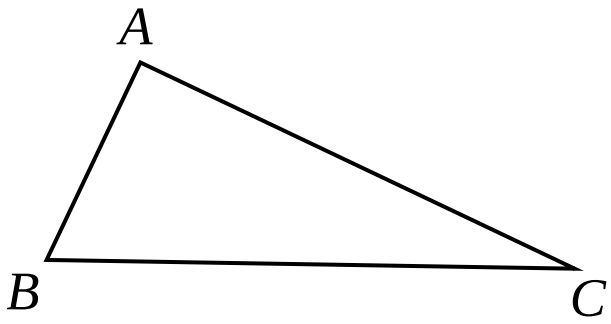
Not: Bir dik üçgen de dik kenarların uzunluklarının karelerinin toplamı hipotenüsün uzunluğunun karesine eşittir. Bu kurala "PYTHAGORAS(PİSAGOR) TEOREMİ" denir.

Özel Dik Üçgenler

(Siz de bildiklerinizi yazın)

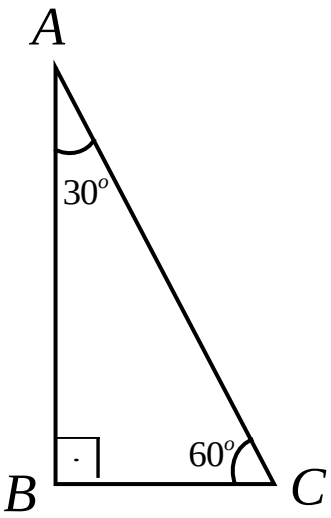
- **3 – 4 – 5**
-
-
-

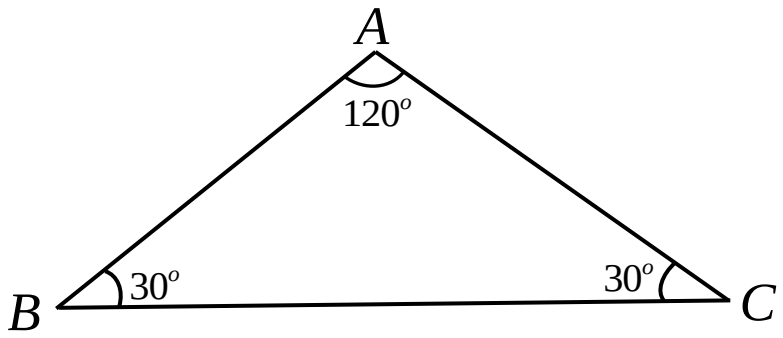
MUHTEŞEM ÜÇLÜ

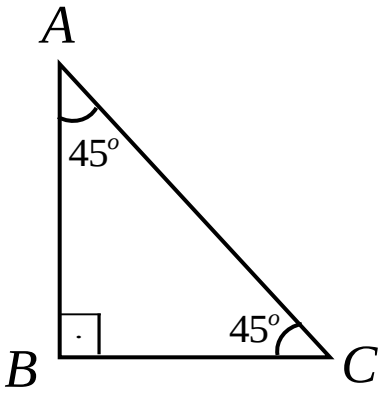


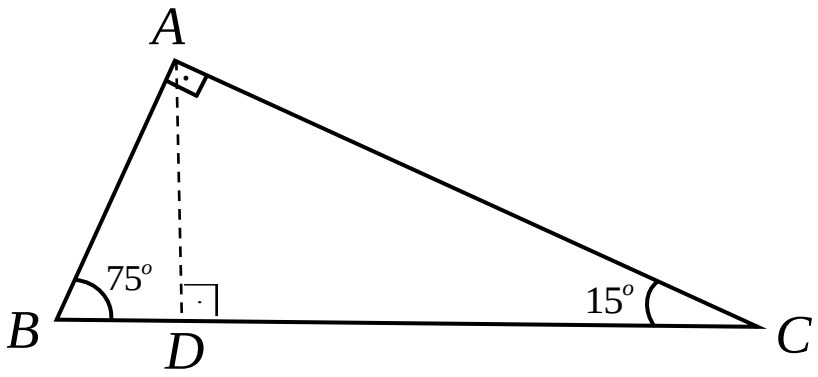
A açısı dik açı olduğuna göre BC kenarına ait kenarortayı çizerek özelliğini yazınız.

ÖZEL AÇILI DİK ÜÇGENLERİ ÇİZİP ÖZELLİKLERİNİ YAZALIM



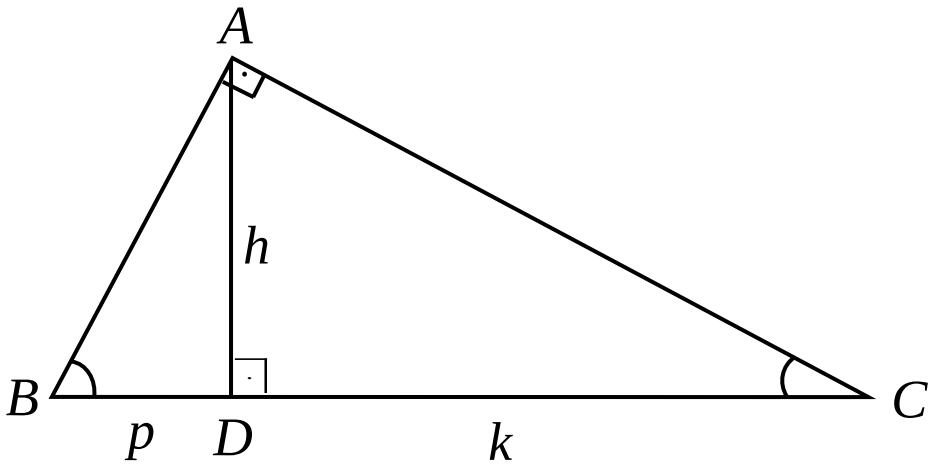






ÖKLİT BAĞINTILARI

1. YÜKSEKLİK BAĞINTISI



ABC üçgeni dik üçgen

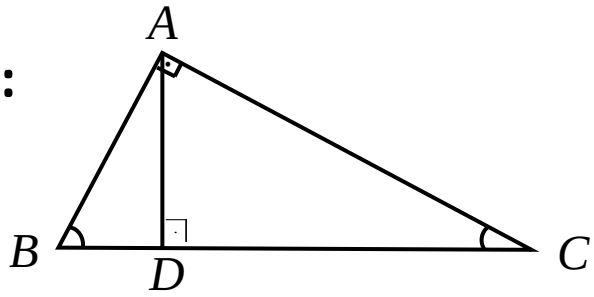
$s\left(BAC\right)=90^{O}$ ve $\left[AD\right]\perp\left[BC\right]$ ol. üzere

$\left|AD\right|=h$

$\left|BD\right|=p$

$\left|DC\right|=k$

Ö:



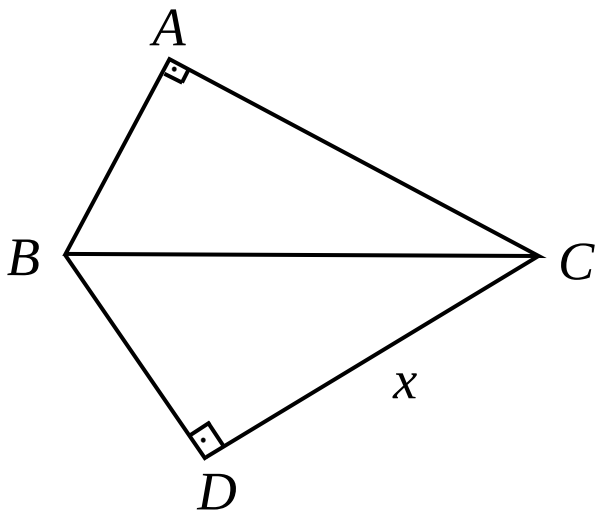
ABC üçgeni dik üçgen

$s\left(BAC\right)=90^{O}$ ve $\left[AD\right]\perp\left[BC\right]$ ol. üzere

$\left|BD\right|=4cm$

$\left|DC\right|=6cm$ ise $\left|AD\right|=?$

Ö:



Yukarıdaki şekilde

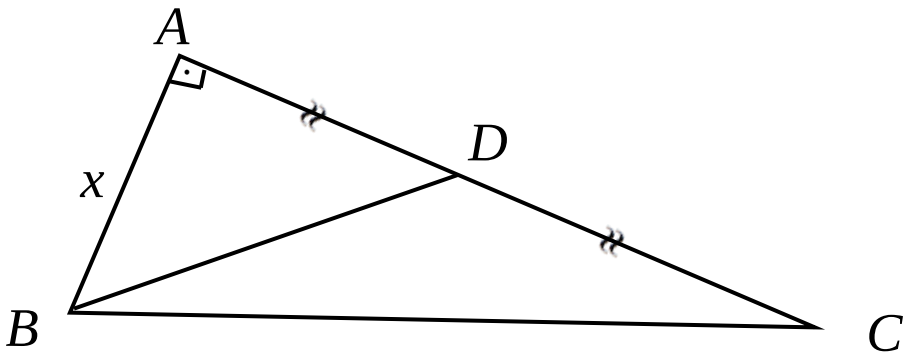
$[AB] \perp [AC], [DB] \perp [DC]$

$|AB| = 8\,cm$

$|AC| = 11\,cm$

$|BD| = 9\,cm$ *ise* $|DC| = x$ *kaç cm olur* ?

Ö:



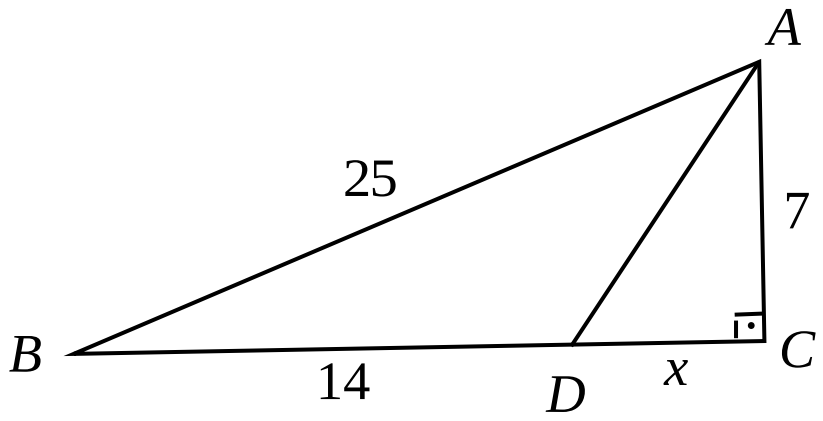
Yukarıdaki şekilde

ABC diküçgen $s(A) = 90^o$

$|BC| = 3\sqrt{10}\,cm$

$|BD| = 6\,cm$ *ise* $|AB| = x = ?$

Ö:



$Yukarıda\ \ ABC\ \ dikü\ddot{c}gen\ \ s\left(C\right)=90^{o}$

$\left|AC\right|=7\,cm$

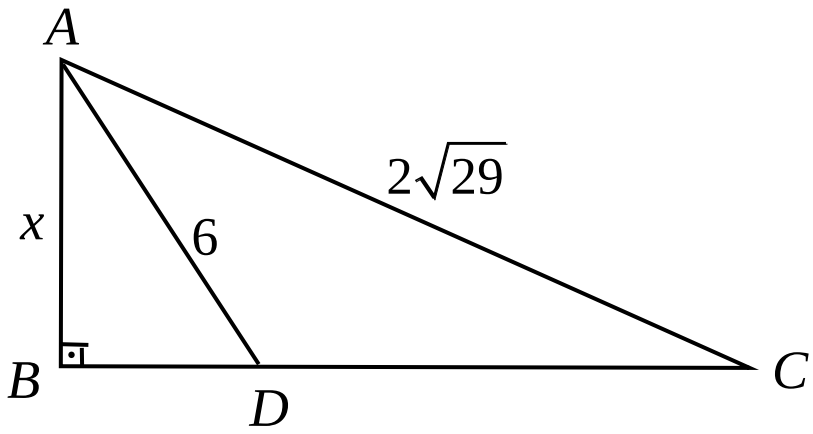
$\left|AB\right|=25\,cm$

$\left|BD\right|=14\,cm\ \ ise\ \ \left|AD\right|=x=?$

Özel dik üçgenleri hatırlayalım 😊

1. **3-4-5**
2.
3.
4.
5.
6.
7.

Ö:



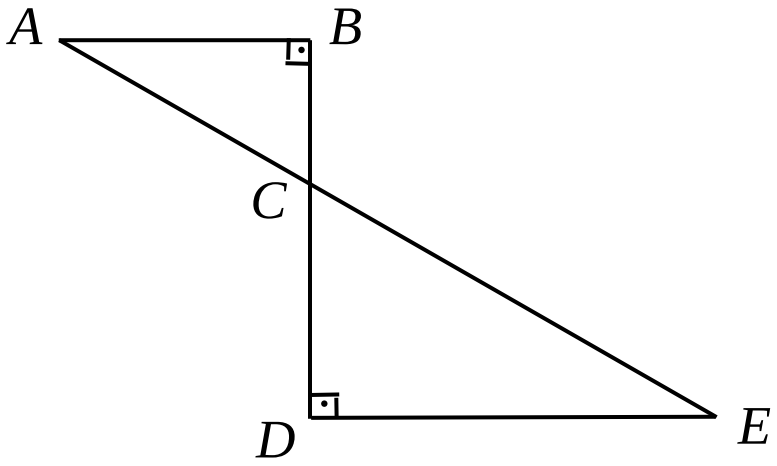
Yukarıda ABC *dikçgen* $s\left(B\right)=90^{o}$

$\left|DC\right|=2.\left|BD\right|$

$\left|AD\right|=6\,cm$

$\left|AC\right|=2\sqrt{29}\,cm$ *ise* $\left|AB\right|=x=?$

Ö:



Yukarıdaki şekilde

$\left[AE\right]\cap\left[BD\right]=\left\{C\right\}$

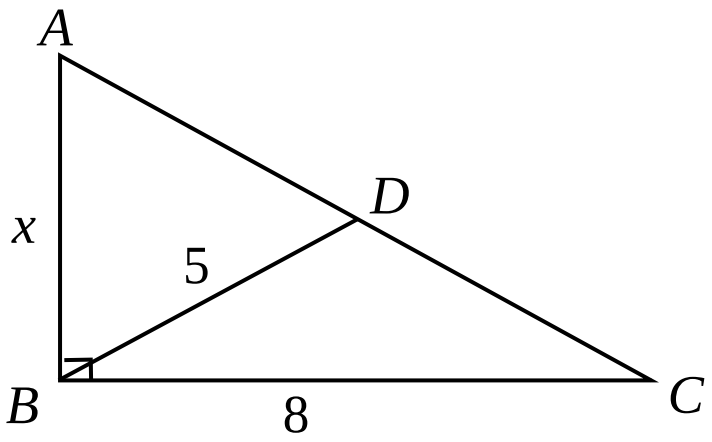
$\left[AB\right]\perp\left[BD\right],\left[DE\right]\perp\left[BD\right]$

$\left|AB\right|=6\,cm$

$\left|BD\right|=16\,cm,\left|DE\right|=10\,cm$

ise $\left|AE\right|=?$

Ö:



Yukarıdaki şekilde ABC dik üçgen

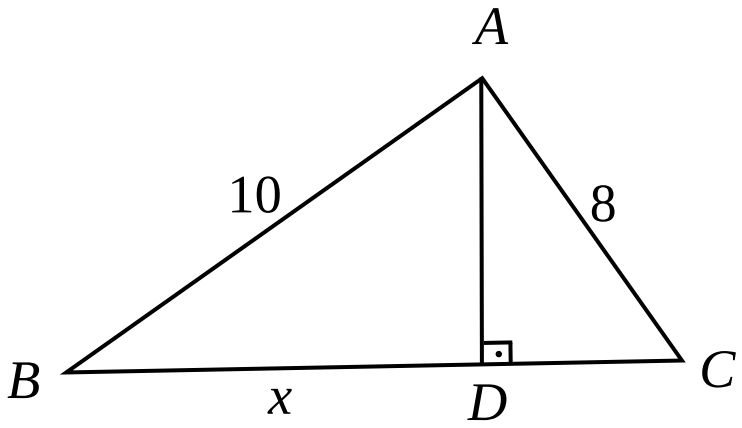
$s\left(B\right)=90^{o}$

$\left|AD\right|=\left|DC\right|$

$\left|BD\right|=5\ cm,\ \left|BC\right|=8\,cm$ *ise*

$\left|AB\right|=x=?$

Ö:



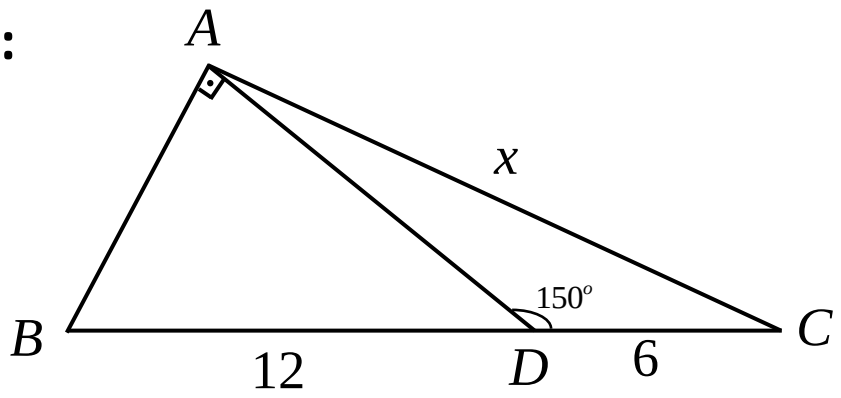
Yukarıdaki ABC üçgeninde

$\left[AD\right]\perp\left[BC\right]$

$\left|AB\right|=10\ cm,\ \left|AC\right|=8\,cm,$

$\left|BC\right|=12\,cm$ *ise* $\left|BD\right|=x=?$

Ö:



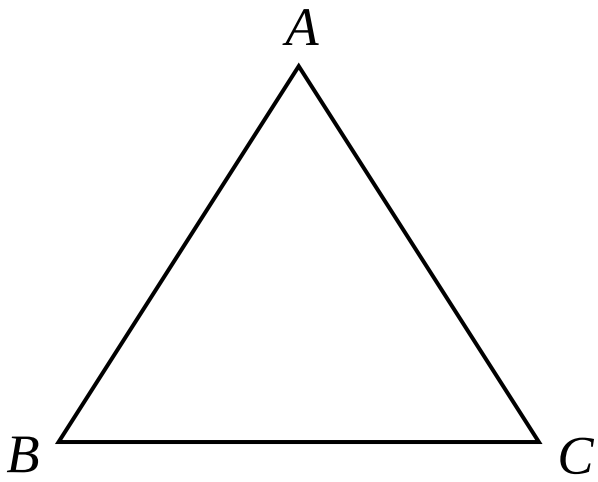
Yukarıdaki ABC üçgeninde

$[AB] \perp [AD],\ s(ADC) = 150^o$

$|BD| = 12\ cm,\ |DC| = 6\,cm,$

ise $|AC| = x = ?$

Ö:

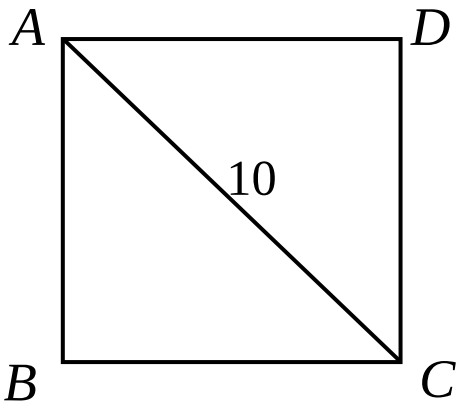


Yukarıdaki ABC üçgeni eşkenar üçgendir

$|AB| = 10\,cm$ *olduğuna göre*

$A(ABC) = ?$

Ö:

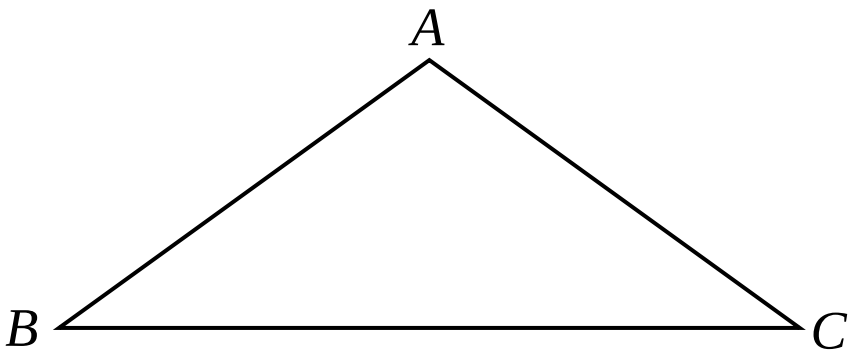


Yukarıdaki şekilde ABCD karedir.

$|AC| = 10\,cm$ *olduğuna göre*

Ç$(ABCD)$ *kaç cm olur?*

Ö:



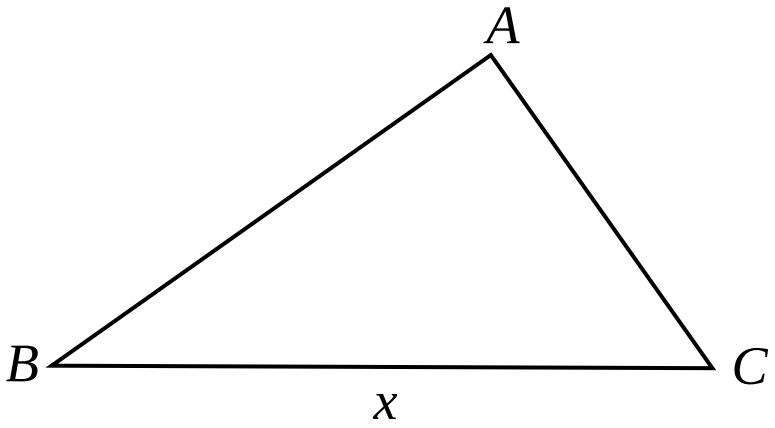
Yukarıdaki ABC üçgeninde

$|AB| = |AC|$

$s(B) = 30^o$

$|BC| = 12\ cm$ *ise* $A(ABC)$ *kaç* cm^2 *olur?*

Ö:



Yukarıdaki ABC üçgeninde

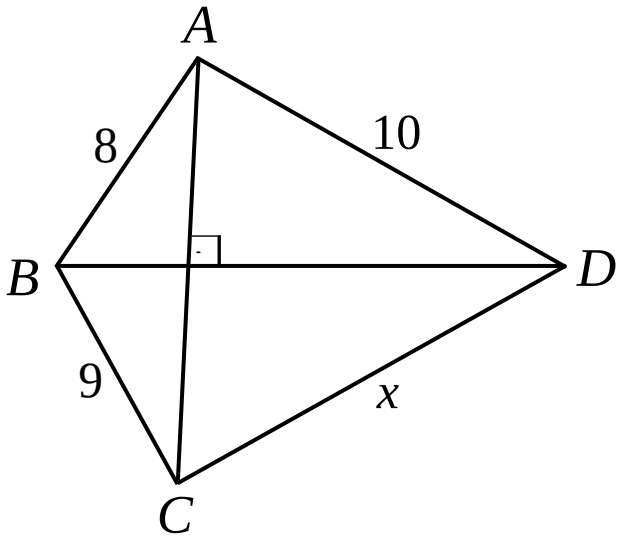
$s\left(A\right)=105^o$

$s\left(B\right)=30^o$

$\left|AB\right|=12\ cm\ ise\ \left|BC\right|=x=?$

Ö: Açılarının ölçüleri 15º-75º-90º olan bir dik üçgende hipotenüs uzunluğu, hipotenüse ait olan yüksekliğin uzunluğunun 4 katına eşittir. (İspatlayınız)

Ö:



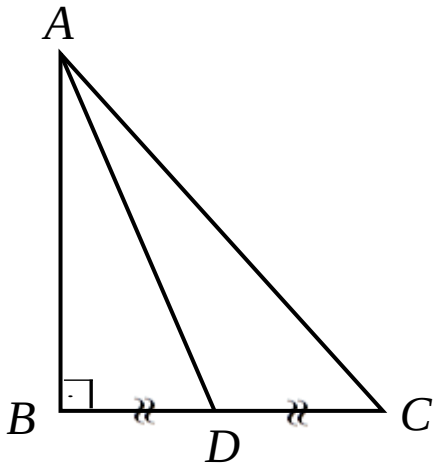
Yukarıdaki şekilde ABCD dörtgen

$[AC] \perp [BD]$

$|AB| = 8\,cm,\ |BC| = 9\,cm,\ |AD| = 10\,cm$

ise $|CD| = x = ?$

Ö:



Yukarıdaki şekilde ABC dik üçgen

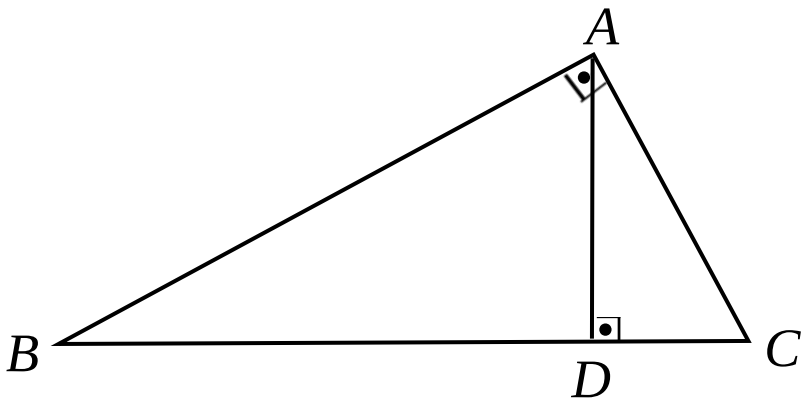
$s(B) = 90^o$

$|BD| = |DC|$

$|AB| = 8\,cm$

$|AD| = 12\,cm$ *ise* $|AC| = ?$

NOT: Aşağıda verilen dik üçgene ait uzunluklara göre <u>Öklit Bağıntılarını</u> yazalım



Yukarıdaki şekilde ABC diküçgen

$[AB] \perp [AC]$

$[AD] \perp [BC]$

$|AB| = c, |AC| = b, |AD| = h$

$|BD| = p, |DC| = r$ *olmak üzere*