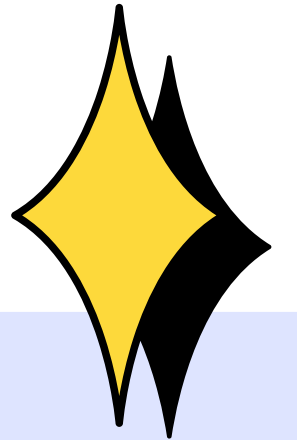
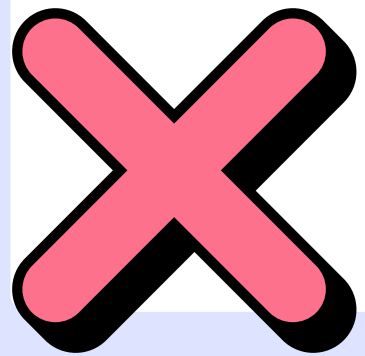


9.SINIF

MATEMATİK

TALES-ÖKLİD-PİSAGOR



WEB SITEMİZ YAYINDA !!



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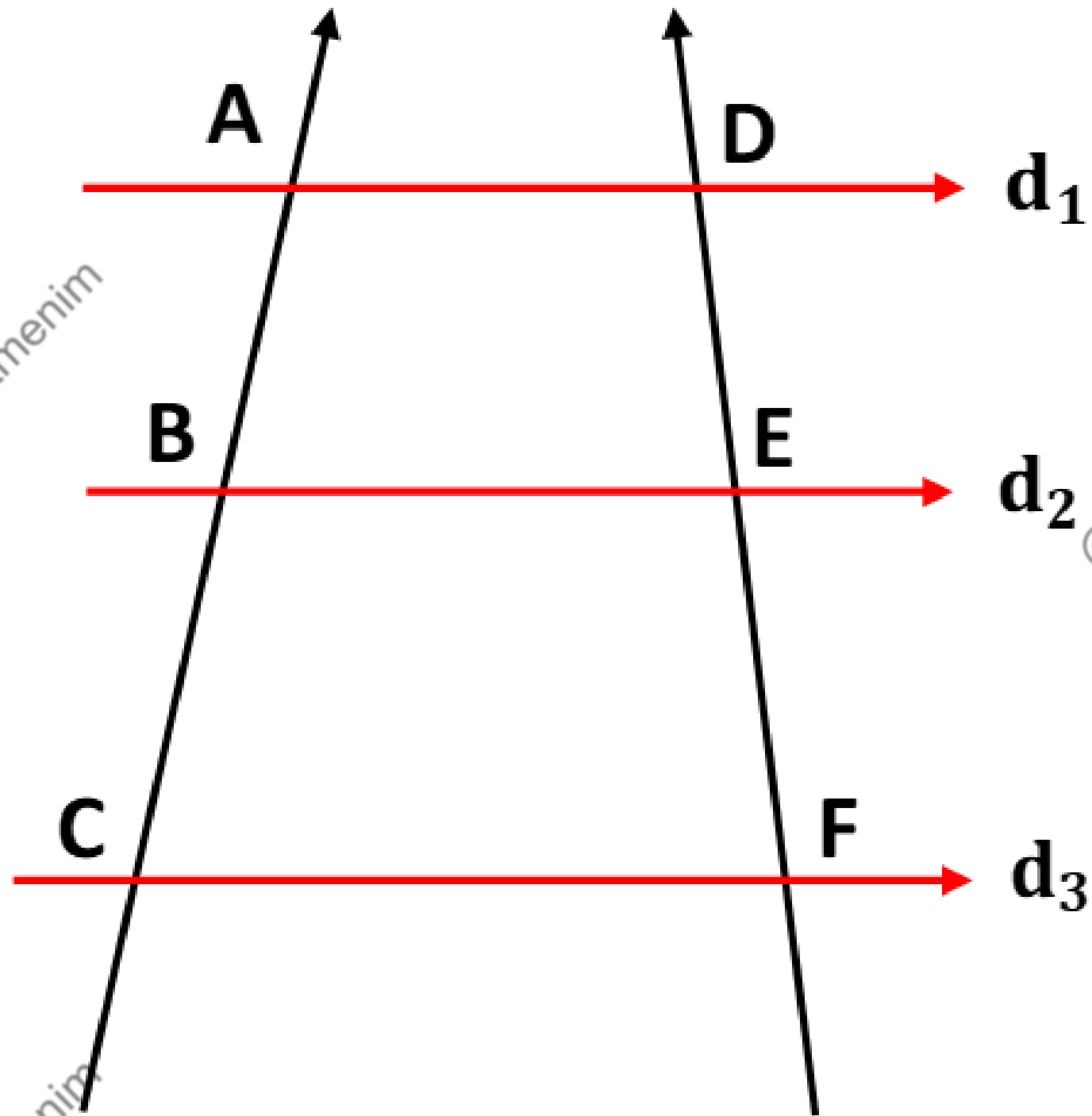
DERS
NOTLARI

ÇÖZEMEDİĞİN
SORUYU
SORABİLME
İMKANI

KONU
ANLATIM
VİDEOLARI

YAZILIYA
HAZIRLIK
SORULARI

Tales (Thales) Teoremi



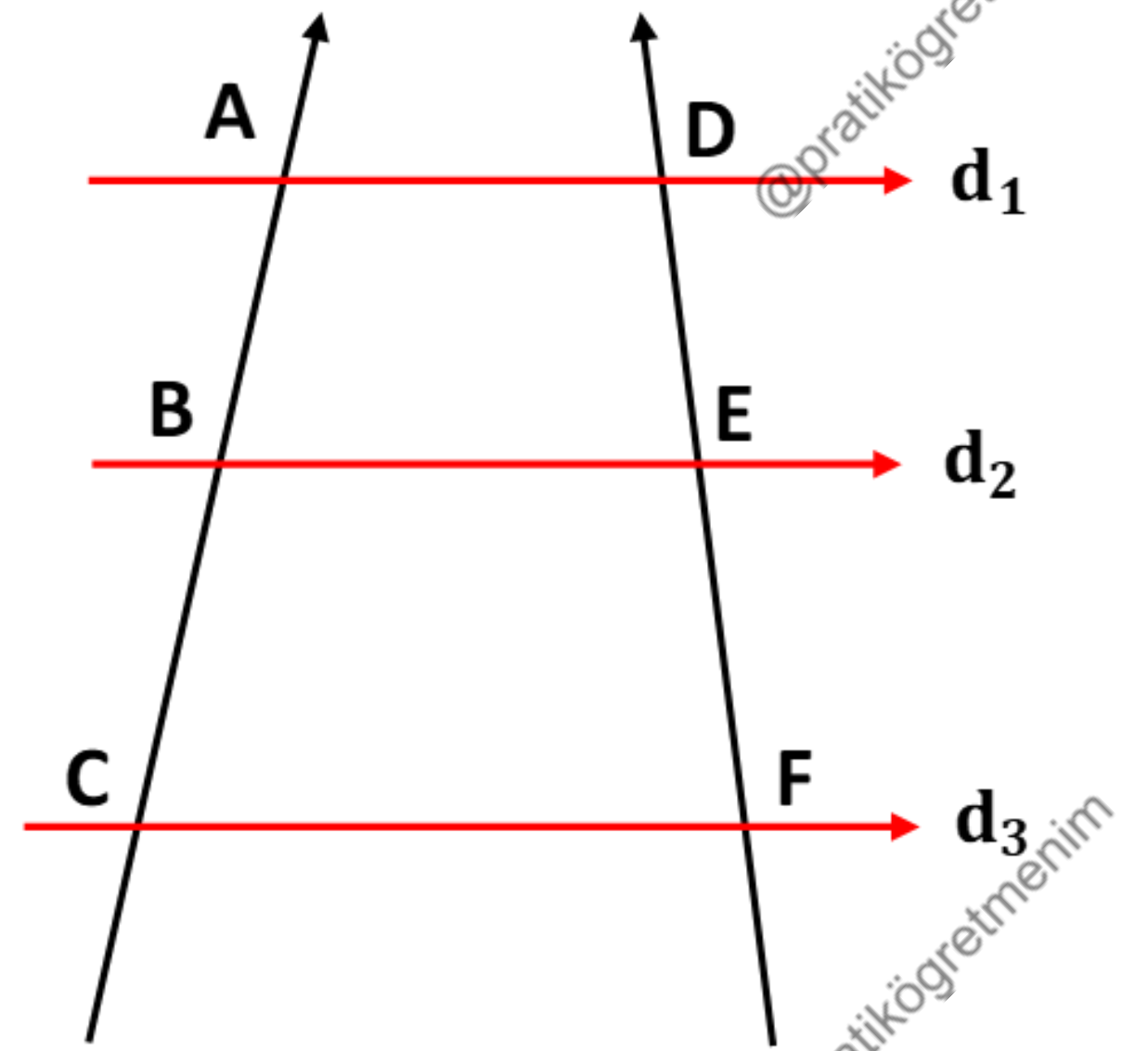
$d_1 // d_2 // d_3$ ise

$$\frac{|AB|}{|BC|} = \frac{|DE|}{|EF|}$$



ÖRNEK :

Yandaki şekilde $[AD] // [BE] // [CF]$;
 $|AB| = 12$ cm
 $|BC| = 8$ cm
 $|DE| = 9$ cm
 $|EF| = x$ olduğuna göre **x değeri kaçtır?**



ÖRNEK :

Yandaki şekilde $[DE] // [GF] // [BC]$;

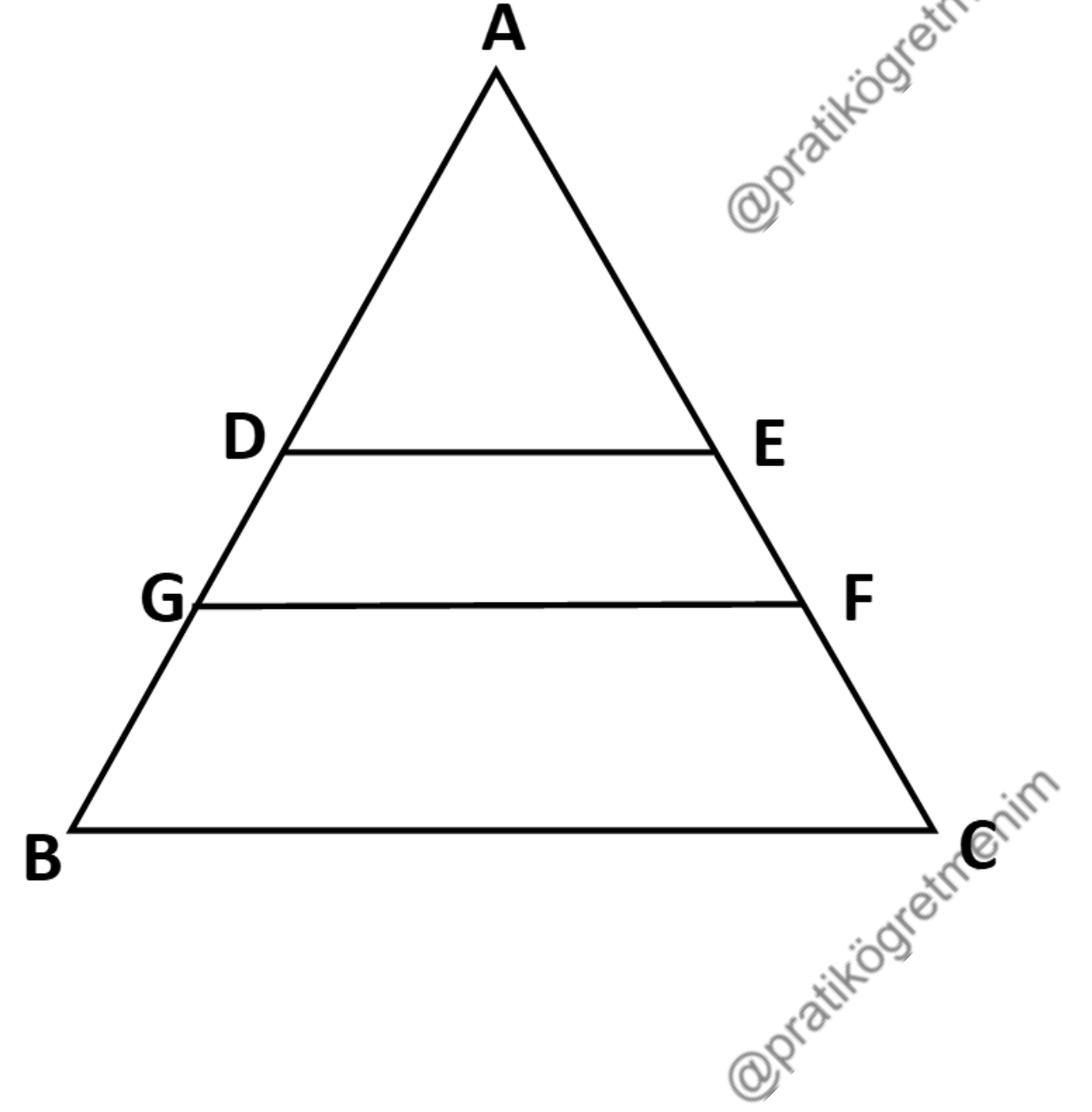
$|AD| = 20$ cm

$|EF| = 9$ cm

$|GB| = 16$ cm

$|FC| = 12$ cm olduğuna göre;

$|AE|$ ve $|DG|$ değerleri kaç cm'dir?





ÖRNEK :

Yandaki şekilde $[DE] // [GF] // [HC]$ ve $[HF] // [BC]$;

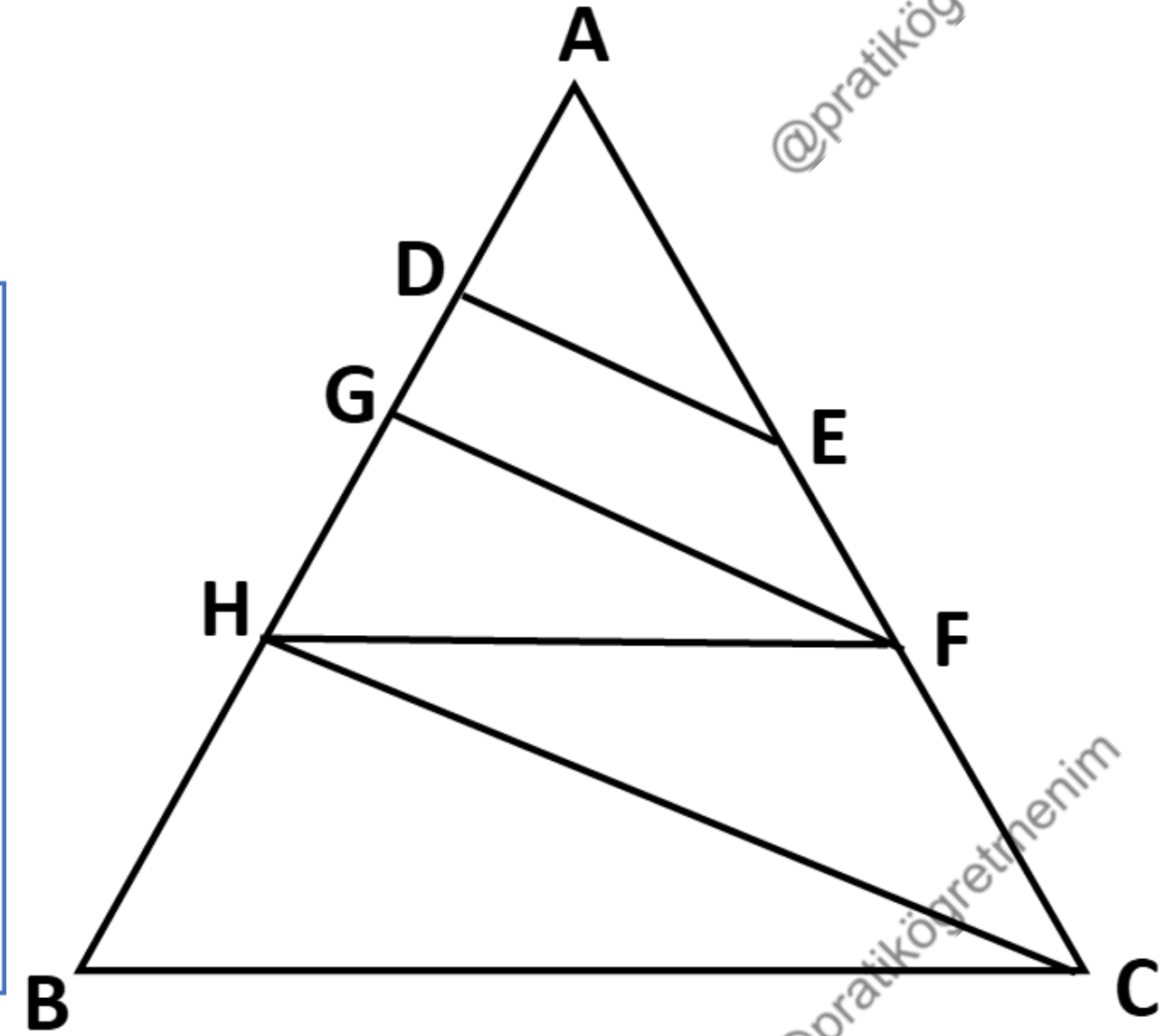
$$|AD| = 6 \text{ cm}$$

$$|DG| = 3 \text{ cm}$$

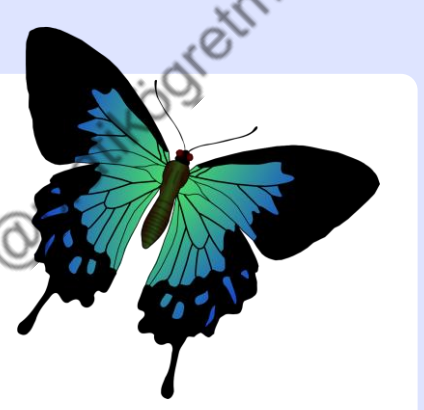
$$|AE| = 4 \text{ cm}$$

$|FC| = 8 \text{ cm}$ olduğuna göre;

$|GH|$ ve $|HB|$ değerleri kaç cm'dir?



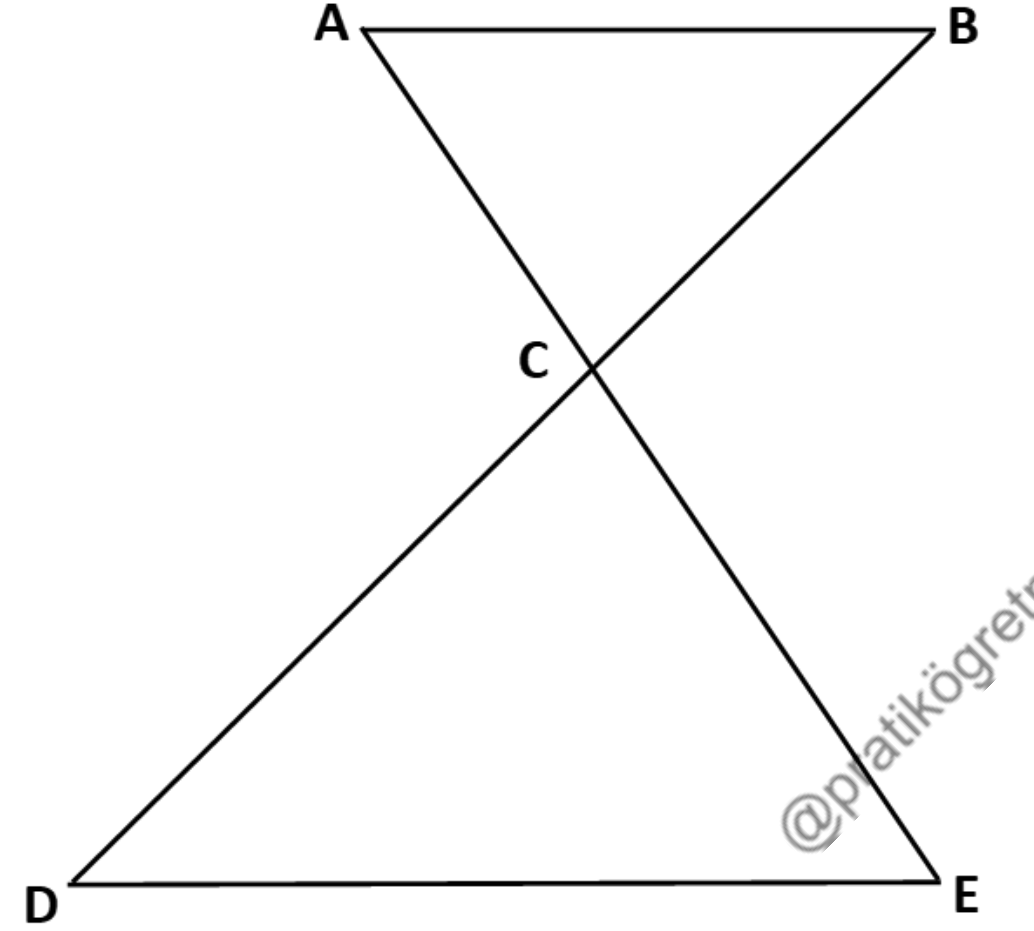
KELEBEK BENZERLİĞİ



Yandaki şekilde $[AB] \parallel [DE]$ ise

$m(\hat{A}) = m(\hat{E})$; $m(\hat{B}) = m(\hat{D})$ ve $m(\hat{C})$ açısı ortaktır.

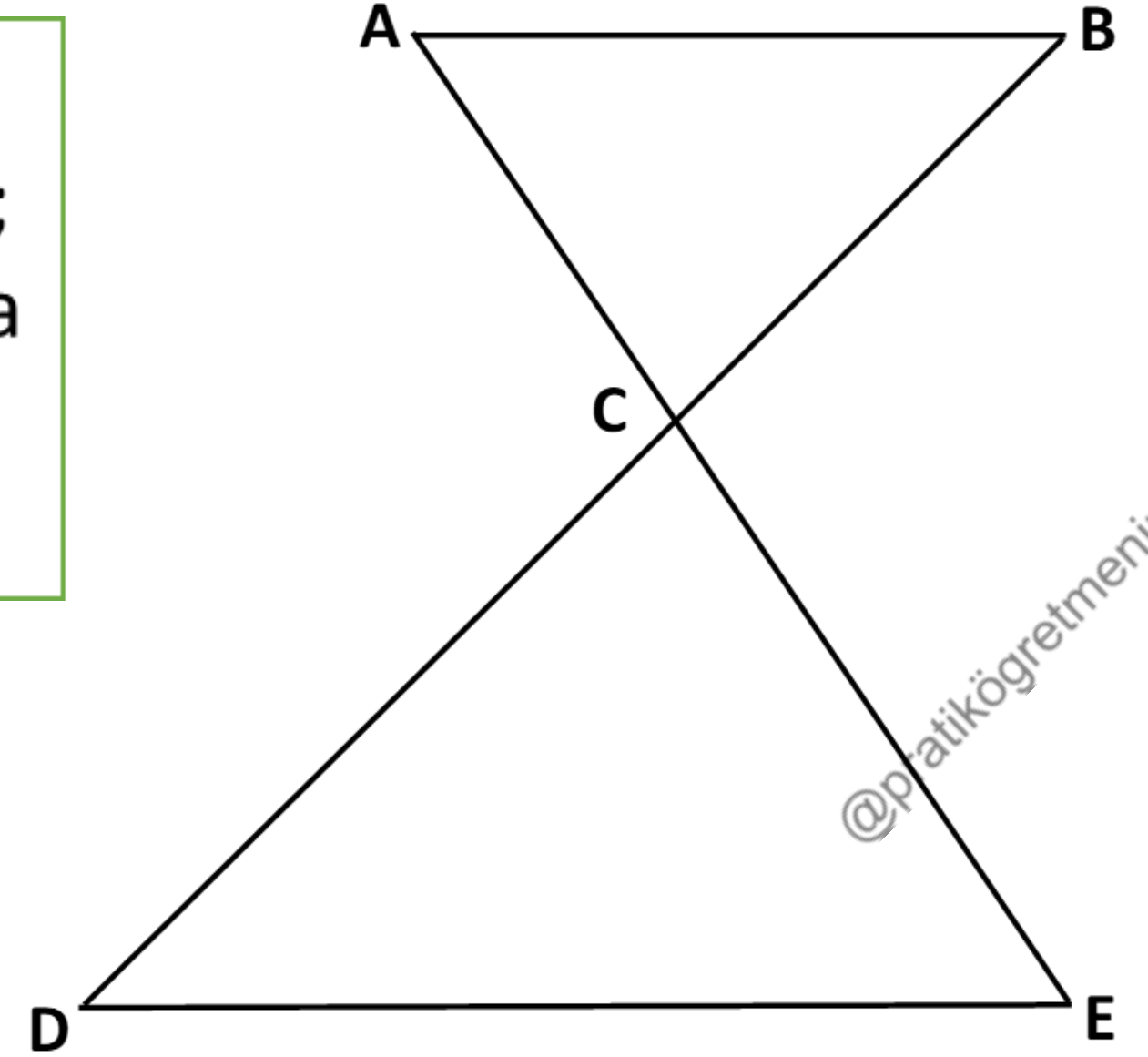
$$\frac{|AB|}{|DE|} = \frac{|AC|}{|CE|} = \frac{|BC|}{|CD|}$$





ÖRNEK :

Yandaki şekilde ABC ve CDE birer üçgen ve $[AB] \parallel [DE]$;
 $2|BC| = |CD|$ ve $|AC| = 10$ cm , $|DE| = 24$ cm olduğuna
göre $|CE| - |AB|$ kaç cm'dir?

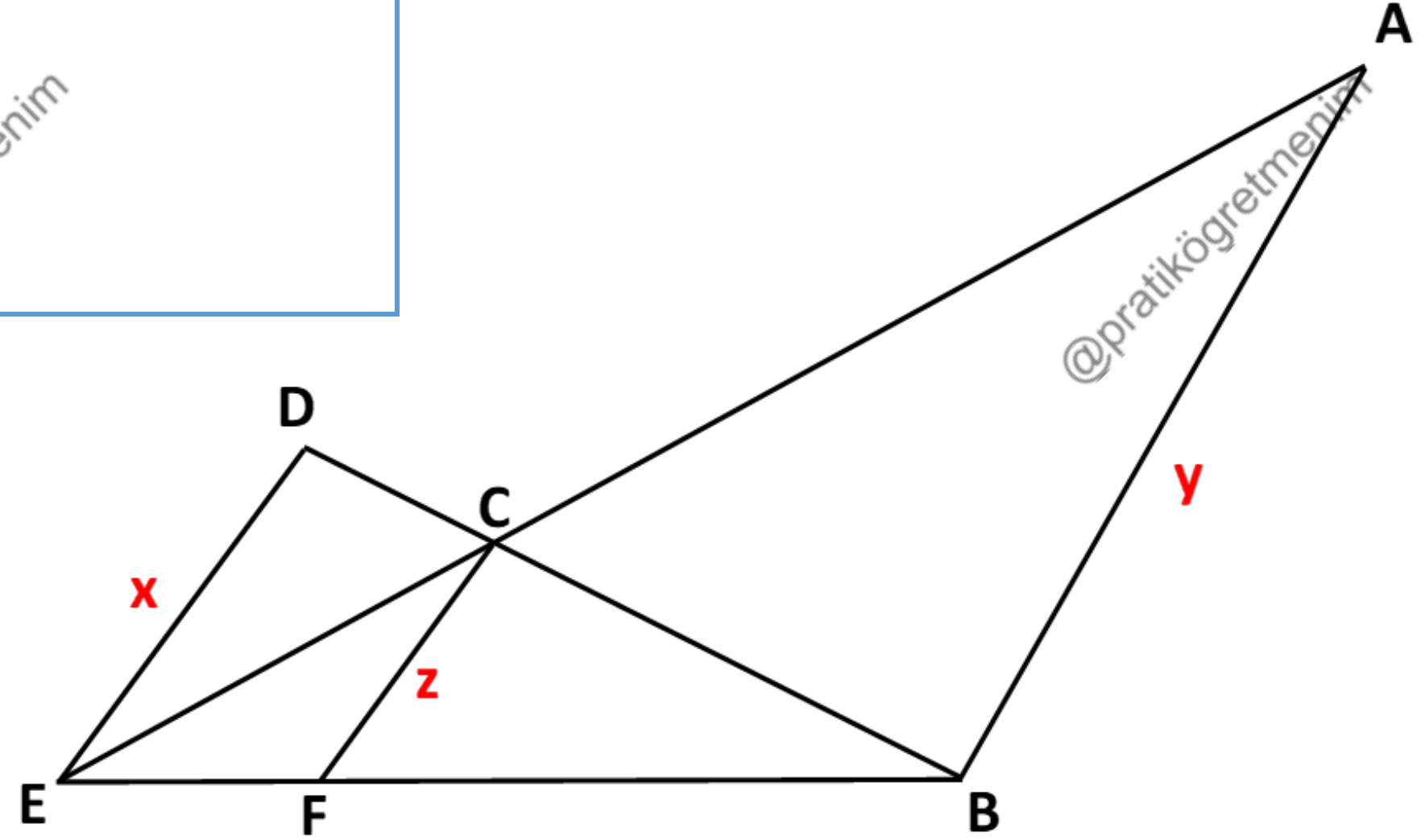




!!! ÖNEMLİ NOT !!!

Yandaki şekilde $[AB] \parallel [CF] \parallel [DE]$ ise;

$$\frac{1}{z} = \frac{1}{x} + \frac{1}{y}$$

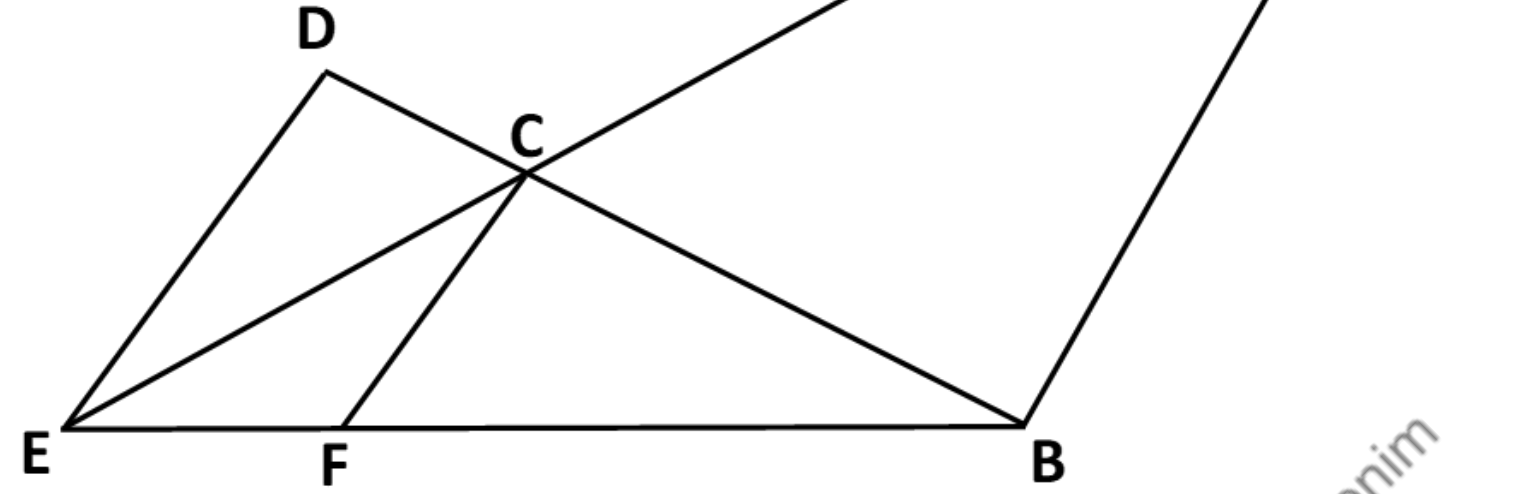




ÖRNEK :

Yandaki şekilde $|DE| = 4 \text{ cm}$; $|AB| = 12 \text{ cm}$ ise

$|CF|$ kaç cm'dir?





ÖKLİD TEORİMİ



@pratikögretmenim

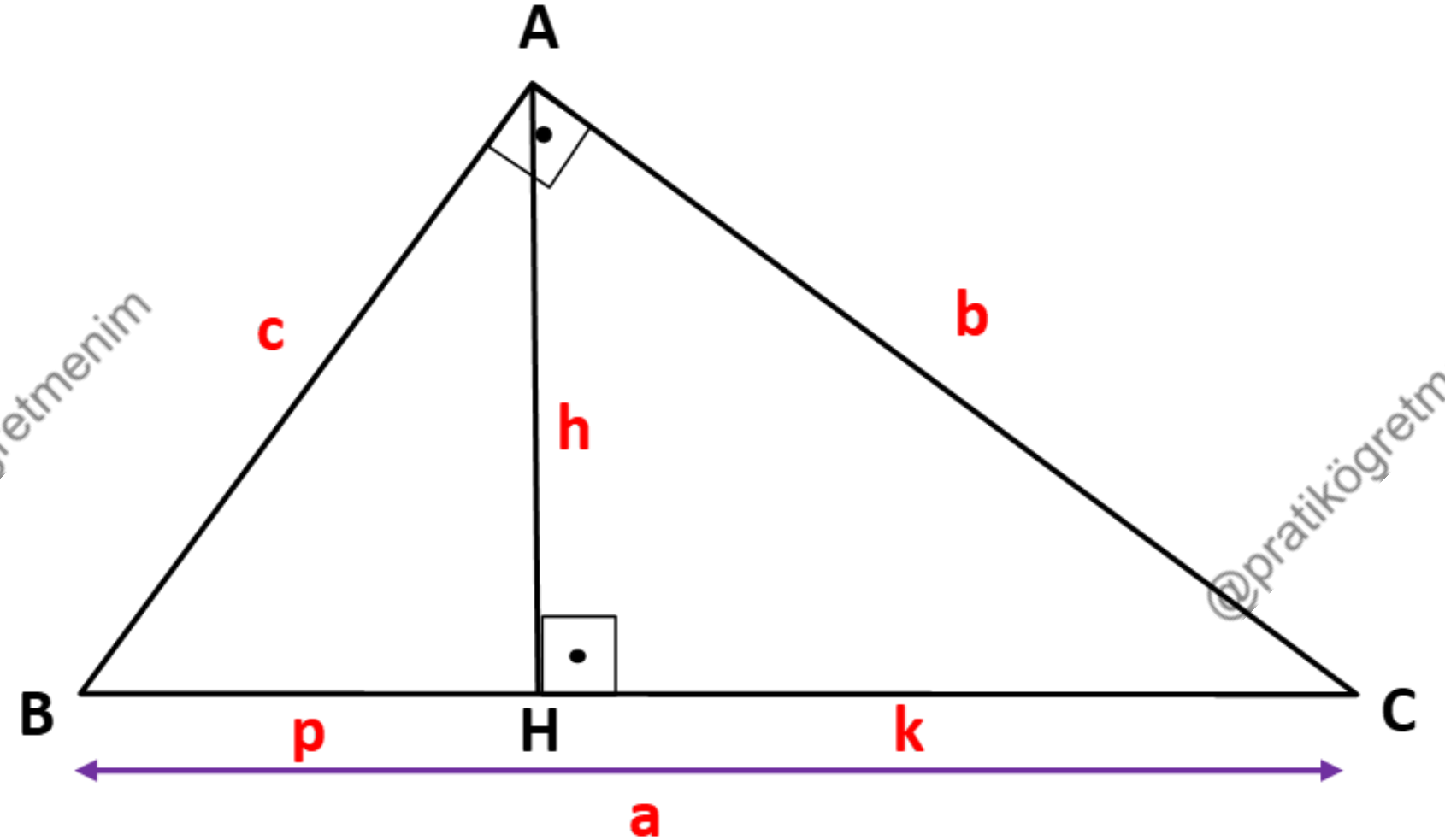
BAC dik üçgeninde $[AH] \perp [BC]$;

$$h^2 = p.k$$

$$b^2 = k.a$$

$$c^2 = p.a$$

$$c.b = h.a$$

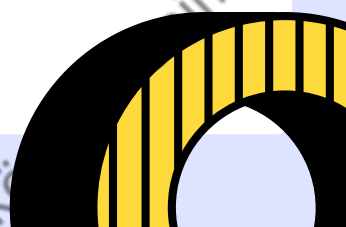


@pratikögretmenim

@pratikögretmenim

@pratikögretmenim

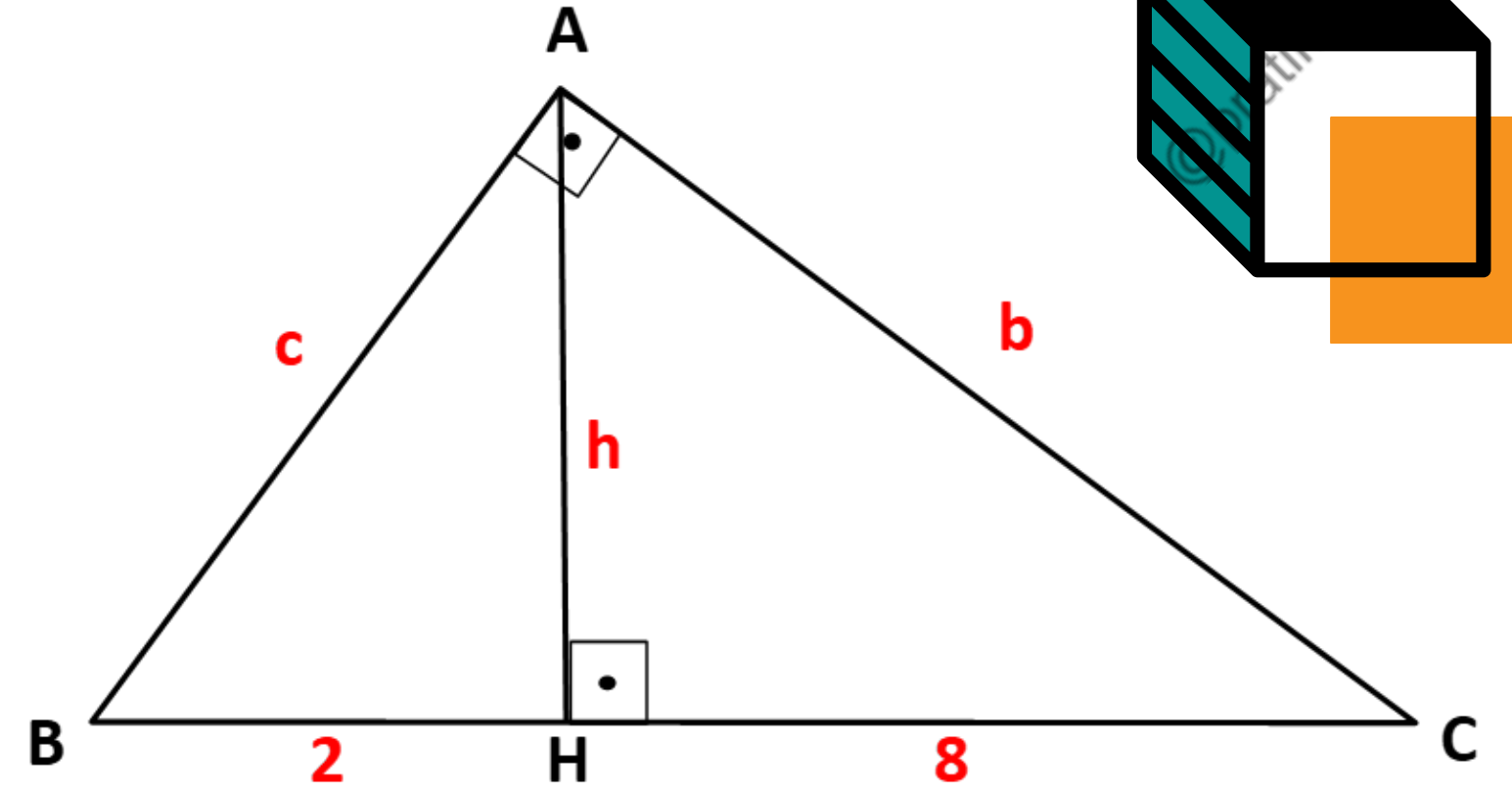
@pratikögretmenim



ÖRNEKLER

Yandaki üçgende $|BH| = 2 \text{ cm}$; $|HC| = 8 \text{ cm}$ 'dir.

Buna göre; h , b ve c kenarlarının ölçülerini bulunuz.



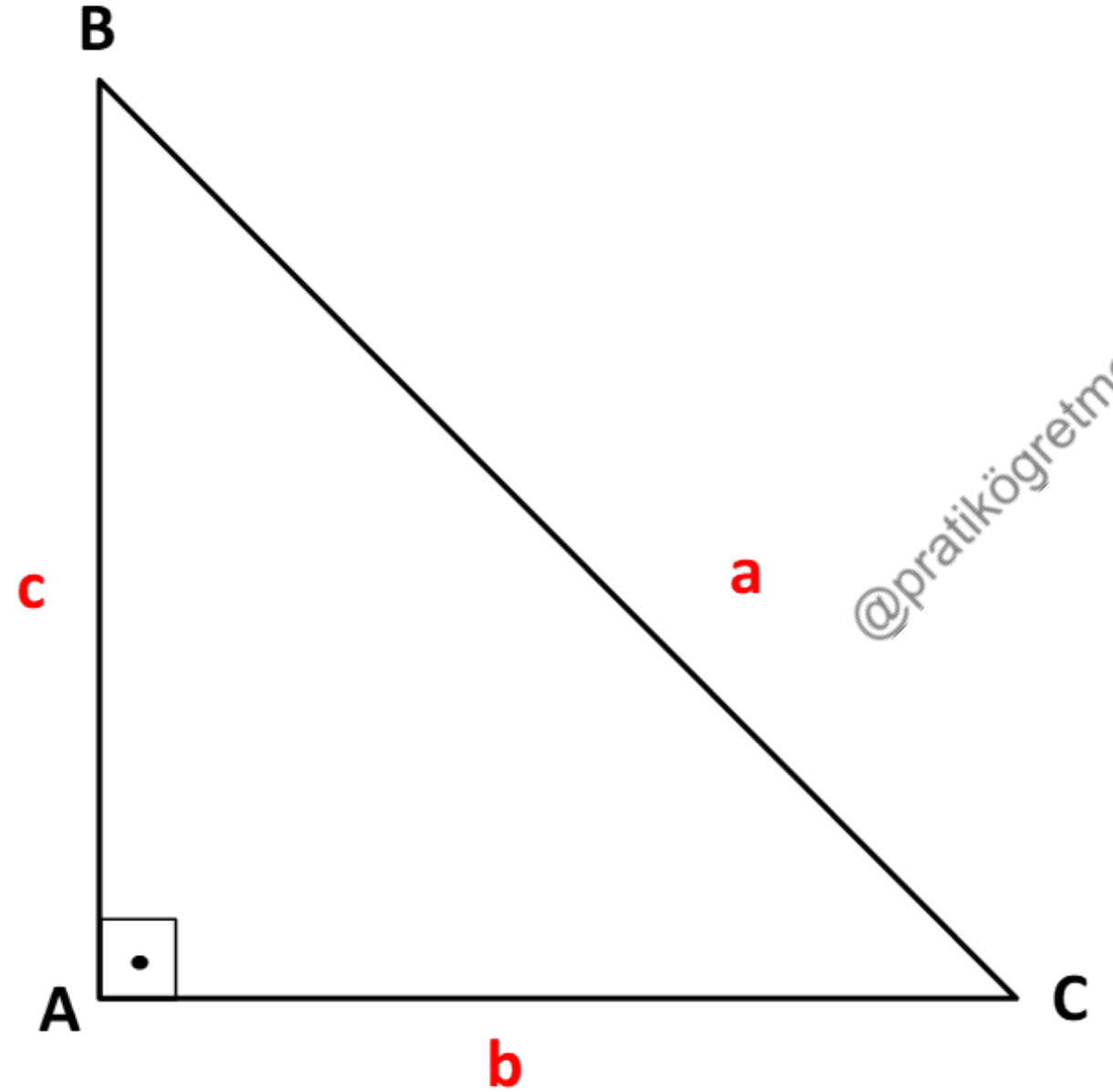


PİSAGOR TEORİMİ



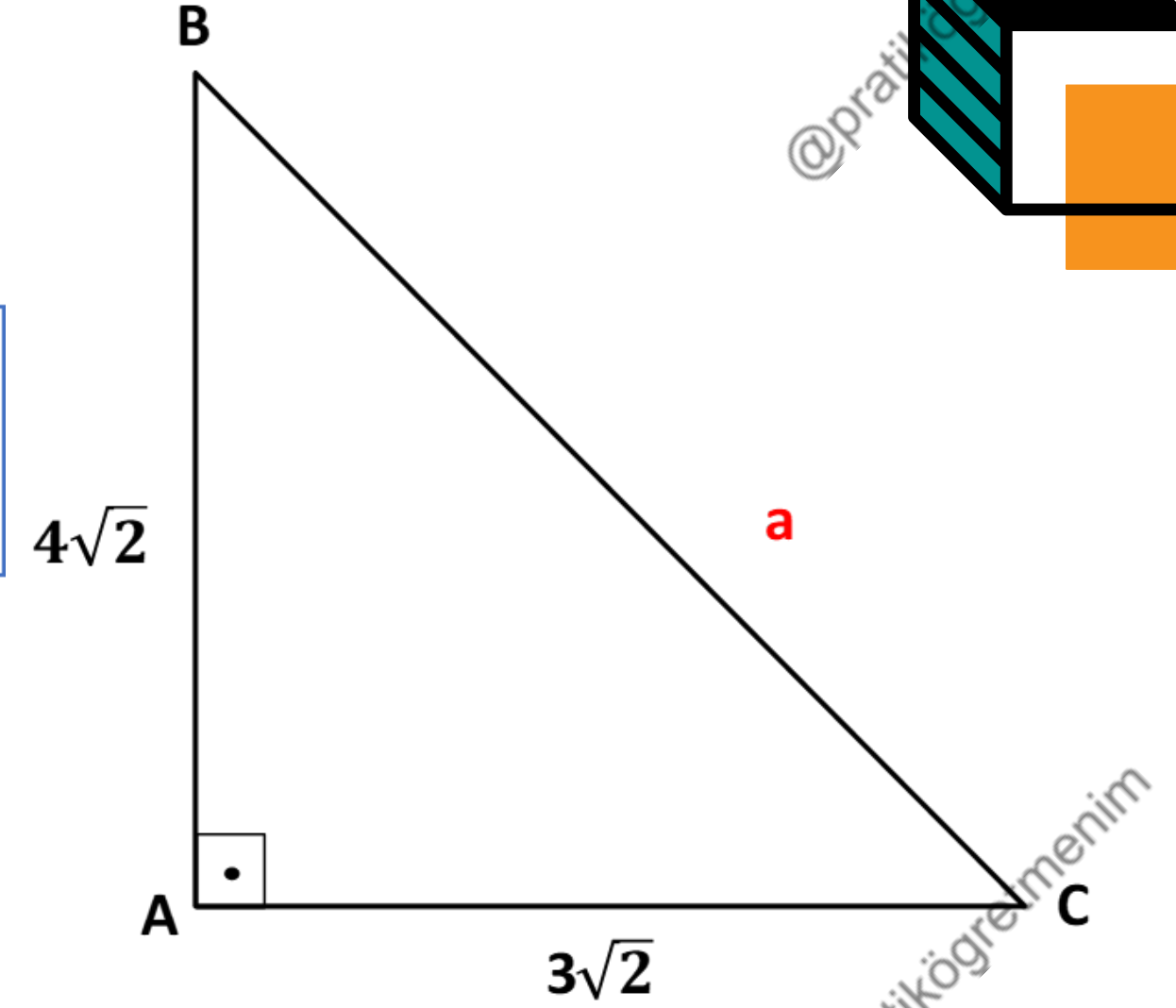
ABC dik üçgeninde :

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

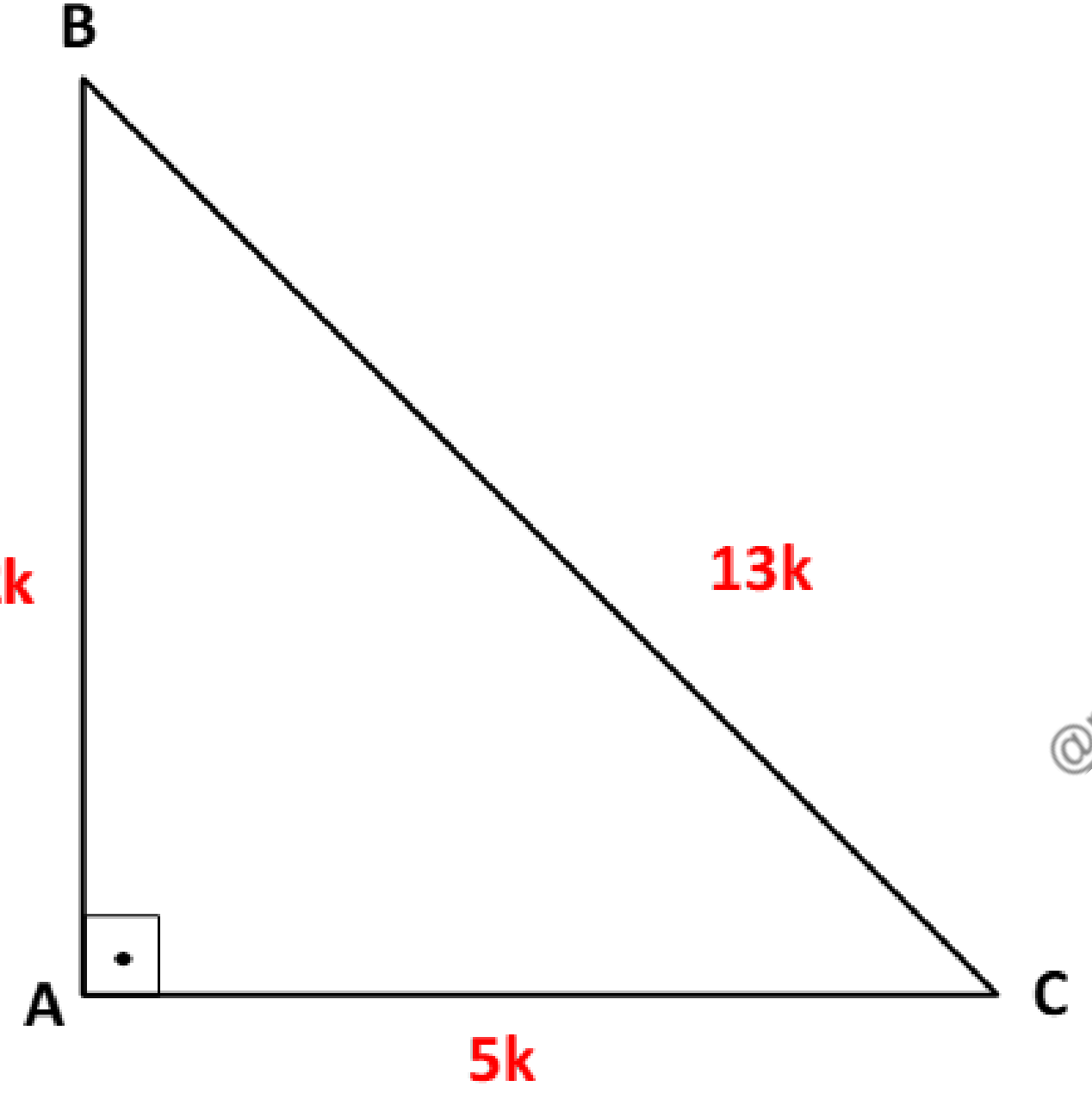
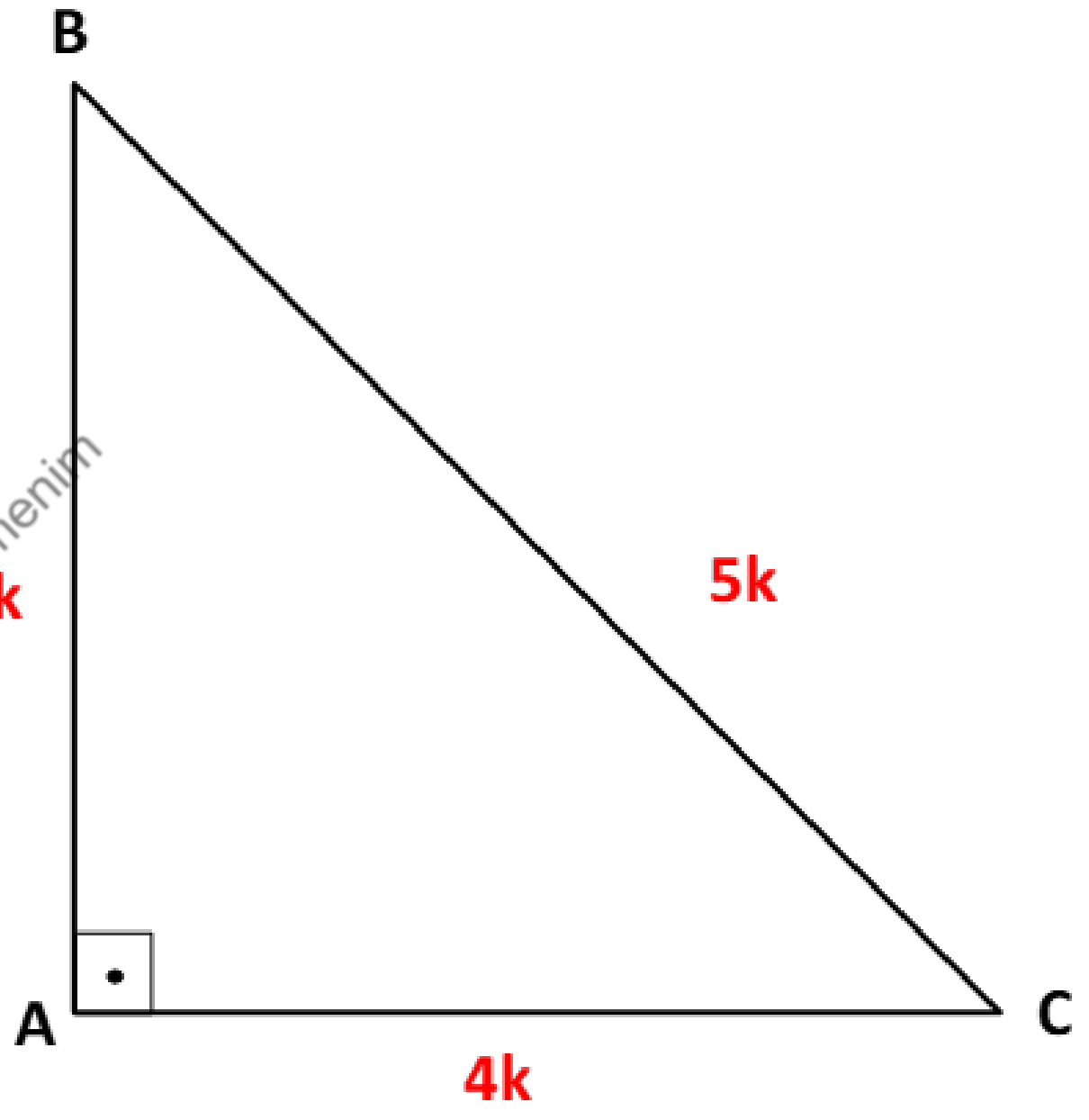


ÖRNEKLER

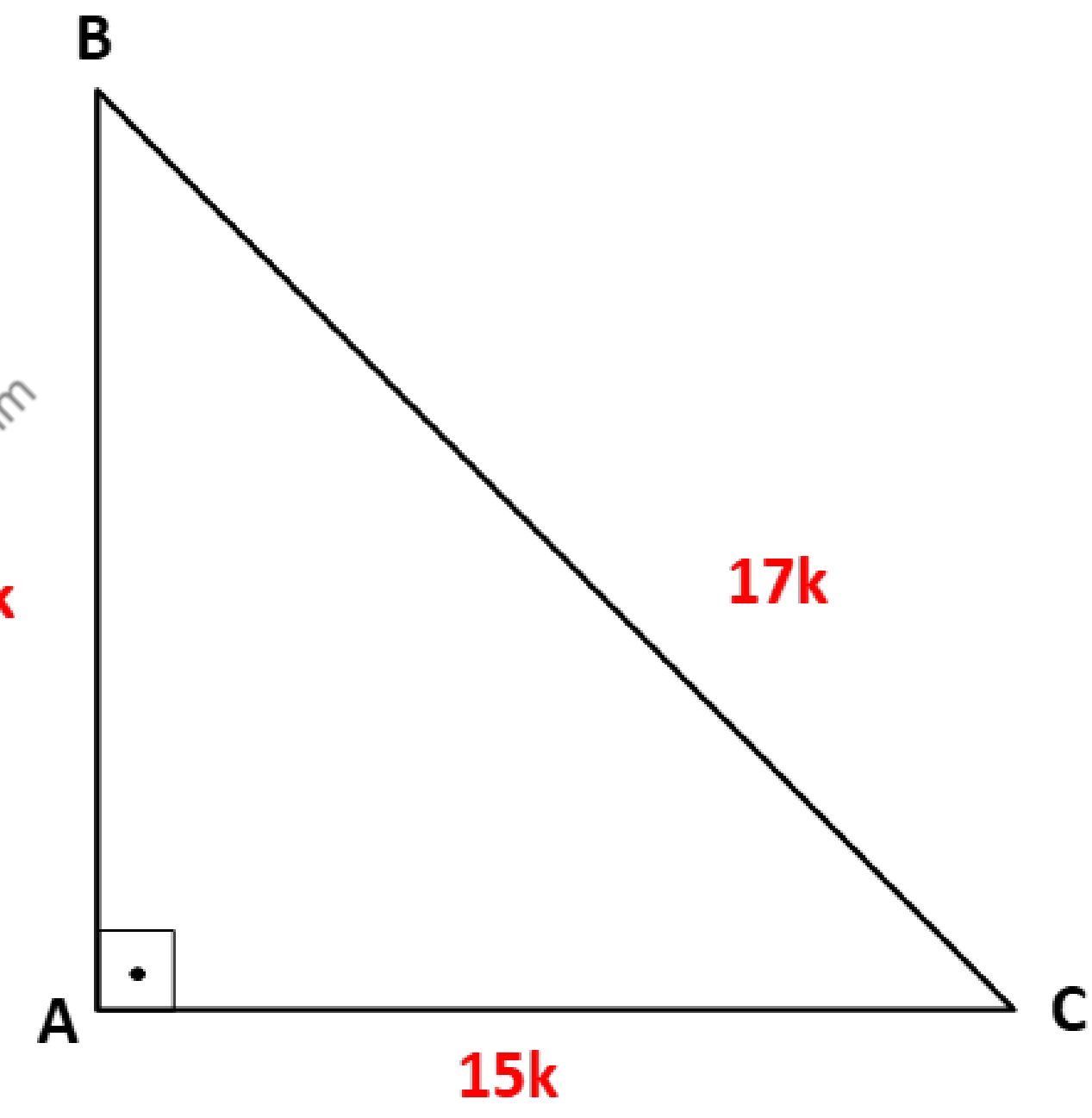
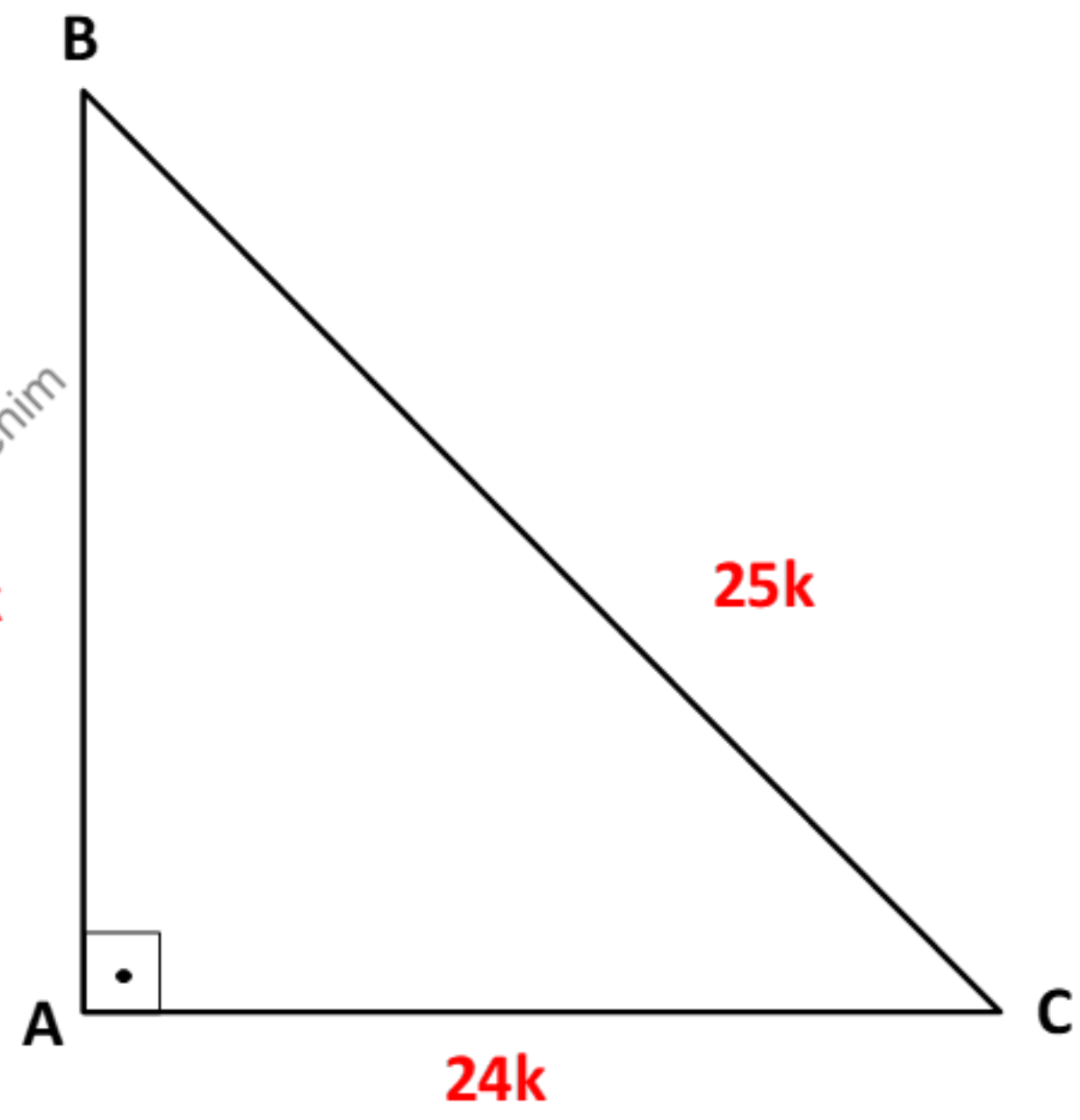
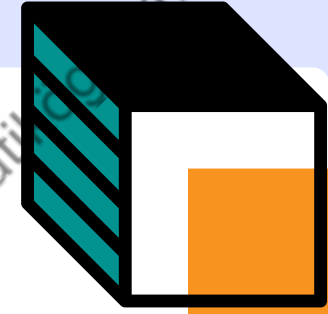
ABC dik üçgeninde $|AC| = 3\sqrt{2}$ cm ; $|AB| = 4\sqrt{2}$ cm'dir.
Buna göre a kenarının uzunluğu kaç cm'dir?



!!! ÖNEMLİ NOT !!!



!!! ÖNEMLİ NOT !!!



ÖRNEKLER

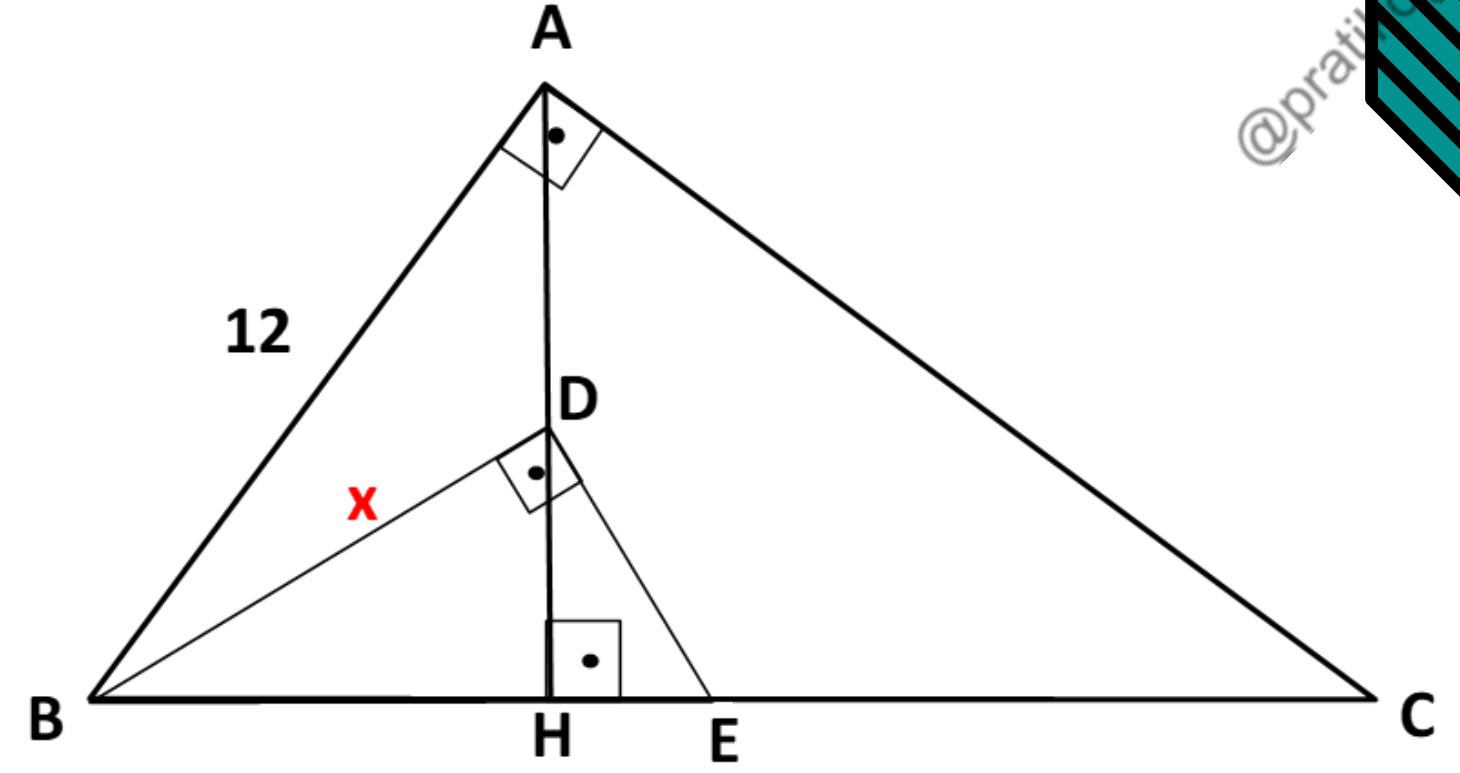
ABC dik bir üçgen ve

$[AB] \perp [AC]$

$[BD] \perp [DE]$

$[AH] \perp [BC]$;

$|AB| = 12$ cm ve $|BE| = |EC|$ olduğuna göre
x kaç cm'dir?



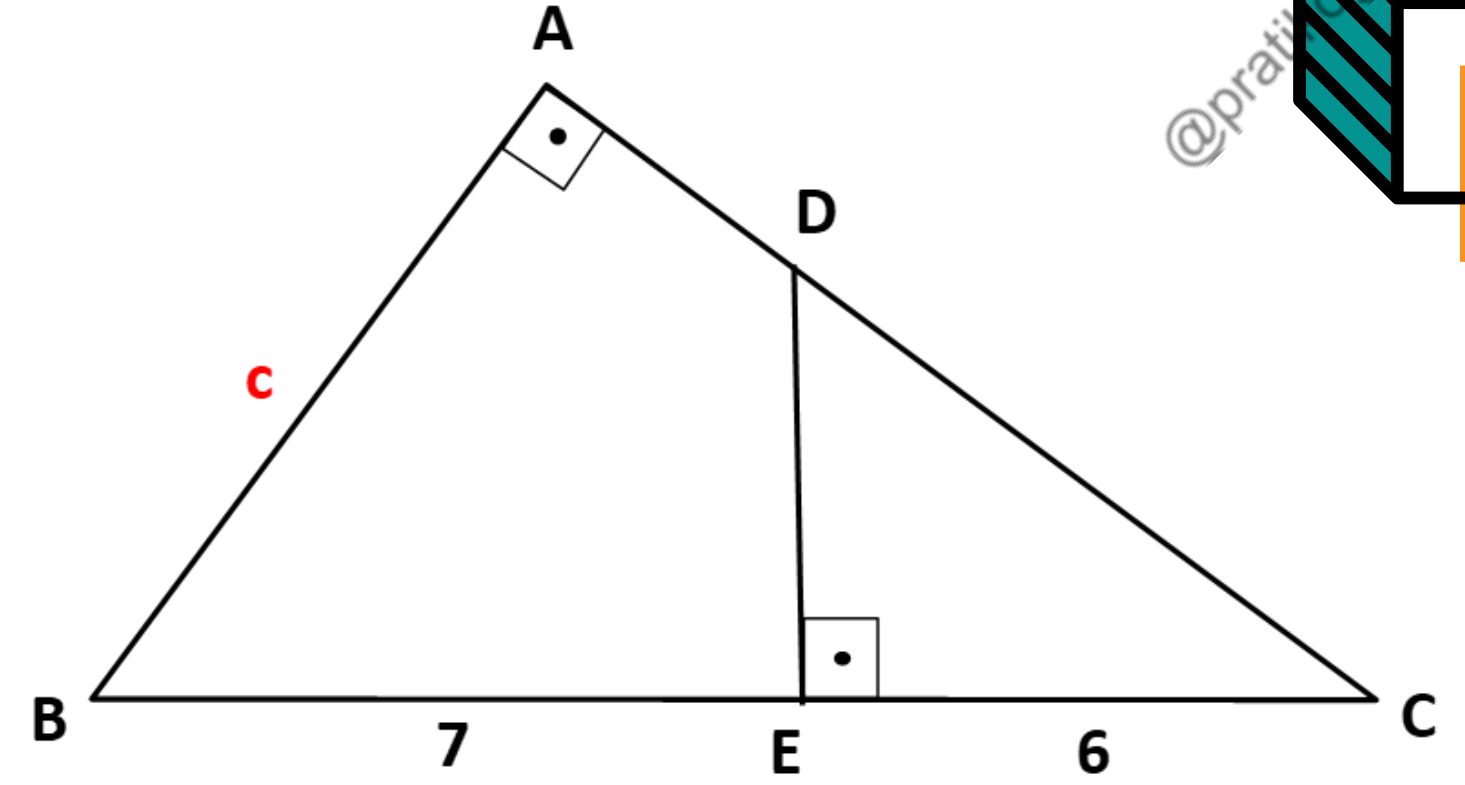
ÖRNEKLER

ABC dik bir üçgen ve

$[AB] \perp [AC]$

$[DE] \perp [BC]$

$|BE| = 7$ cm, $|EC| = 6$ cm ve $|DC| = 2|AD|$
olduğuna göre c kaç cm'dir?



ÖRNEKLER

ABC bir üçgen ve
[AD] \perp [BC]

|BD| = 7 cm, |AB| = 25 cm, |AE| = 30 cm,
|EC| = 14 cm olduğuna göre x kaç cm'dir?

