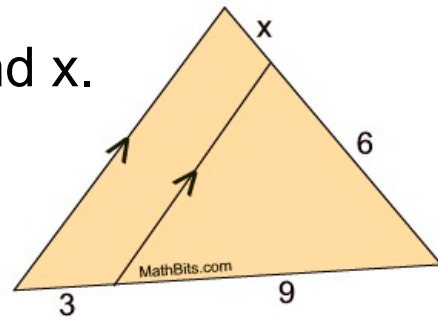


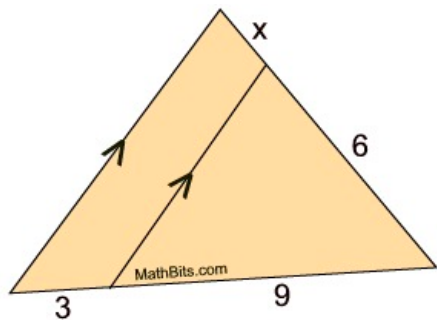
Warm up:

1.) Given the figure below, find x .



2.) Why are these figures similar AND what does it mean to be similar?

Jan 12-9:17 AM



Do you agree with Student A?

Student A said: since the two lines are parallel, $x = 3$.



Jan 14-1:24 PM

Do you agree with Student B?
Student B put:

Jan 14-1:24 PM

Solution:

$9 + 3 = 12$

$\frac{12}{9} = 1.333... = \frac{4}{3}$

Jan 14-1:24 PM

10. Given the diagram at the right.

a) Is $\triangle ABC \sim \triangle DEC$?

Choose:

- Yes No

b) Find AB .

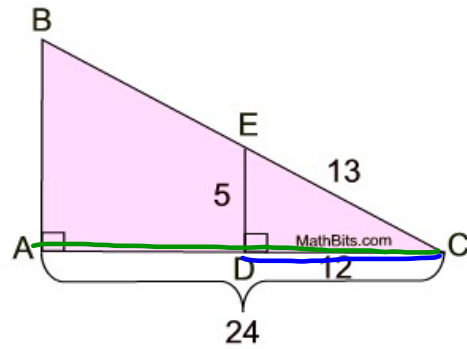
Choose:

- 10 12 15 26

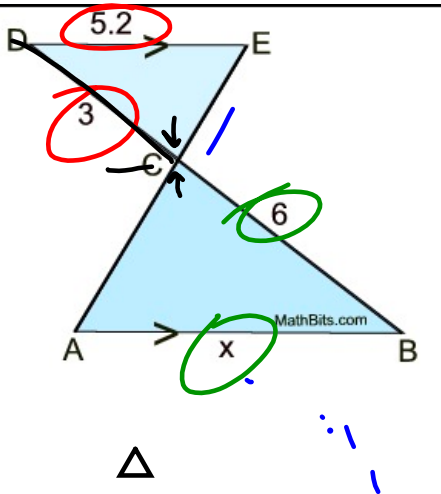
c) Which proportion is true in relation to these triangles?

Choose:

- $\frac{DE}{AB} = \frac{CD}{AD}$ $\frac{DE}{AB} = \frac{ED}{BE}$ $\frac{DE}{AB} = \frac{DC}{AC}$ $\frac{CE}{BE} = \frac{CD}{AC}$



Jan 13-7:59 PM



Find x .

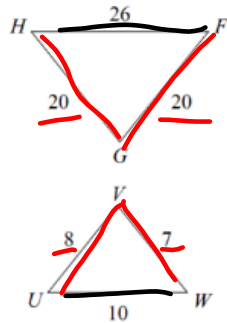


$$\frac{6}{3} = 2 \cdot 5.2 = 10.4$$

$$x = 10.4$$

Jan 13-8:03 PM

1. Tell whether the triangles are similar or not.

1) $\triangle HGF \sim \triangle UVW$ 

A) not similar

B) similar

$$\frac{26}{10} = 2.6$$

$$\frac{20}{8} = 2.5$$

Jan 13-8:04 PM

P.W. Solutions:

pg.272 #'s

6.) C

6,7, 12-15

7.) 12.9 ft or 12 ft 11in

12.) IK = 7.5 cm

13.) IN = 10.5 cm

14.) IT = 5 cm

15.) TH = 13.5 cm

Jan 13-8:13 PM

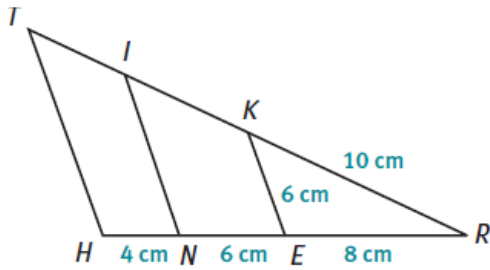
6. The lengths of the corresponding sides of two similar triangles are 10, 15, and 20 and 15, 22.5, and x . What is the value of x ?
- A. 20
 - B. 25
 - C. 30
 - D. 40

Jan 14-1:22 PM

7. Standing 8 feet from a puddle of water on the ground, Gretchen, whose eye height is 5 feet 2 inches, can see the reflection of the top of a flagpole. The puddle is 20 feet from the flagpole. How tall is the flagpole?

Jan 14-1:23 PM

Given the diagram with $\overline{TH} \parallel \overline{IN} \parallel \overline{KE}$ and segment measures as shown.



Determine the following measures. Show your work.

- | | |
|----------|----------|
| 12. IK | 13. IN |
| 14. IT | 15. TH |

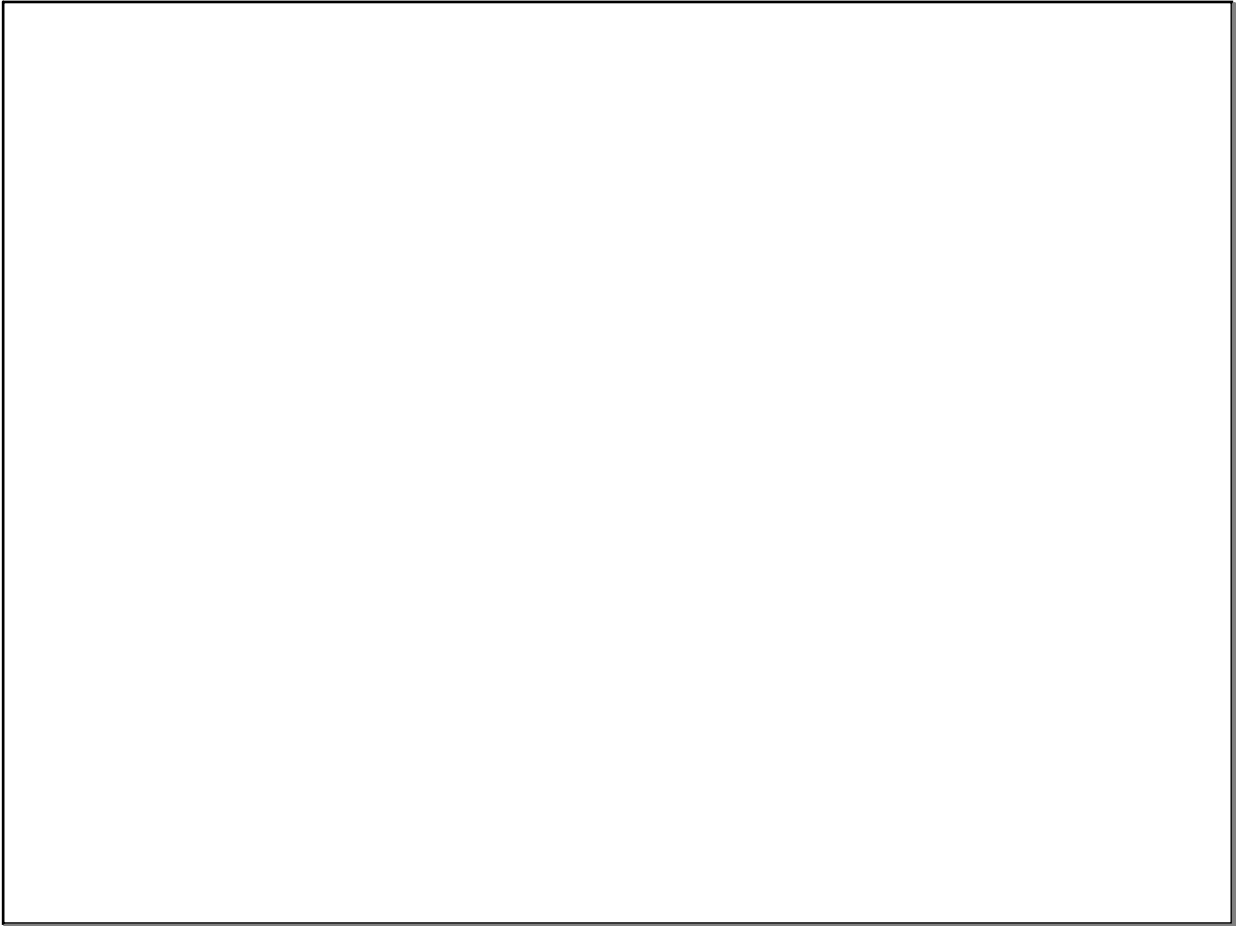
Jan 14-1:24 PM

-What does it mean for two figures to be similar?

-We need one of two things for two triangles to be similar...what are they?

-Squiggly thing

Jan 13-8:16 PM



Jan 25-8:47 PM