At the end of class, I will be able to...

☆ determine if two triangles are similar

☆ find the missing measures of similar triangles

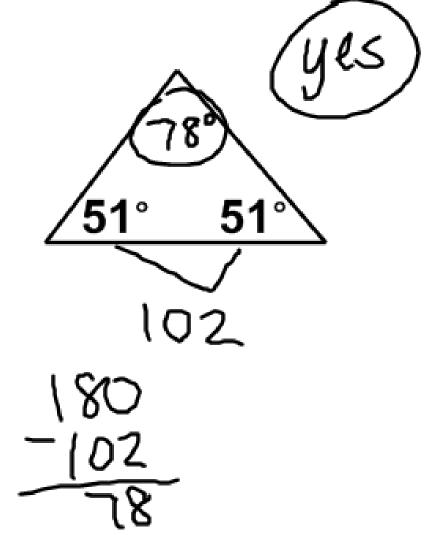
11 - 6 Similar Triangles

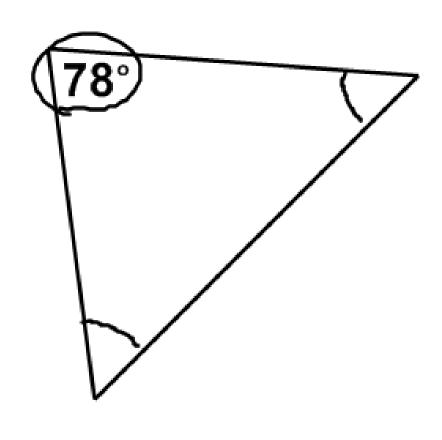
similar triangles: same shape, but not necessarily the same size

*** corresponding angles are congruent

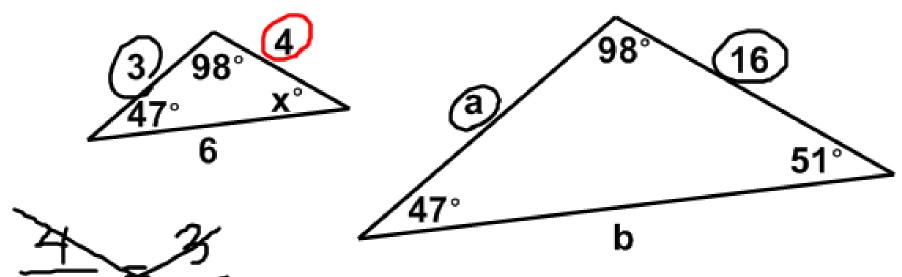
*** Corresponding sides are proportional

Ex: Are the two triangles similar?





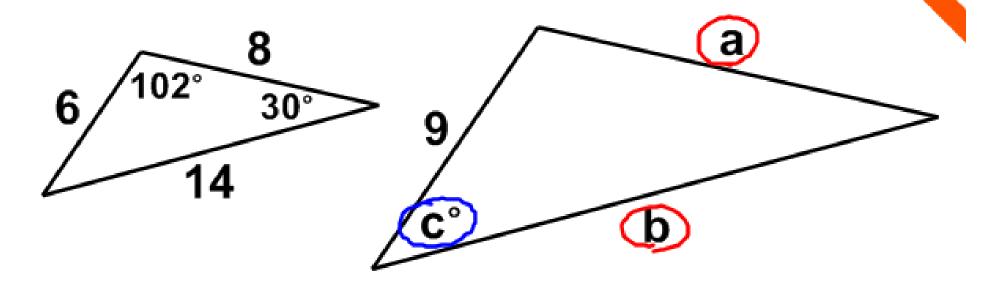
Ex: Find the missing measures of these similar triangles.



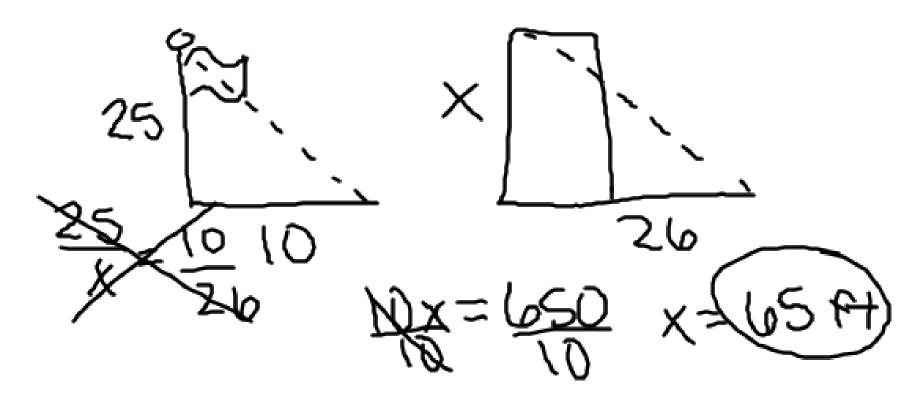
$$a = \frac{12}{24}$$

 $b = \frac{24}{51}$

Dry - Erase Board



Ex: A 25-ft flagpole casts a shadow that is 10 ft long, and the nearby school building casts a shadow that is 26 ft long. How high is the building?



Dry - Erase Board

Marcus is 6 ft tall and casts a shadow 4 ft long. If a swingset casts a shadow 10 ft long, how tall is the swingset?

Coming up this week:

Similar Triangles Project

Quiz Review

Quiz!

l can...

☆ determine if two triangles are similar

☆ find the missing measures of similar triangles

Homework:

p. 618 #4 - 20 even