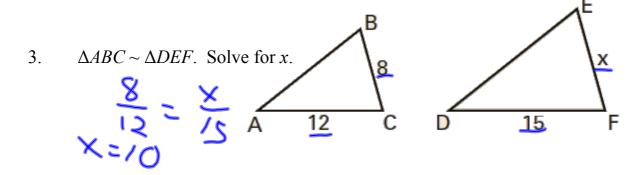
## Warm Up

- 1. In  $\triangle ABC$  and  $\triangle XZW$ ,  $m \angle A = m \angle X$  and  $m \angle B = m \angle Z$ . What can you conclude about  $m \angle C$  and  $m \angle W$ ?
- 2. Solve  $\frac{x}{18} = \frac{54}{10}$   $\frac{18.54}{10}$  x = 97.2



## 6-4 AA Triangle Similarity

AA Similarity Postulate - Angle-Angle

Angle-Angle

Angle-Angle

Angle-Angle

Angle-Angle

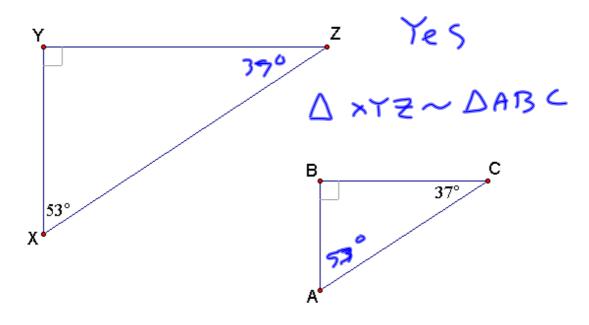
Angle-Angle

If 
$$\triangle ABC \sim \triangle XYZ$$

$$\frac{AB}{BC} = \frac{\checkmark \checkmark}{\checkmark 2}$$

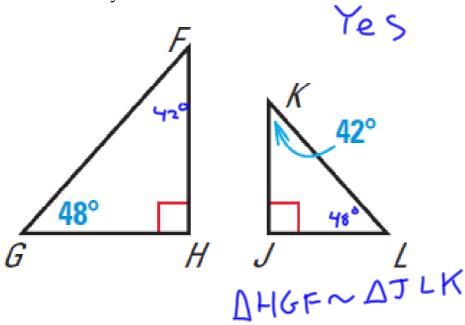
$$\frac{AB}{XY} = \frac{3}{3}$$

Ex 1 Determine whether the triangles are similar. If they are, write a similarity statement.

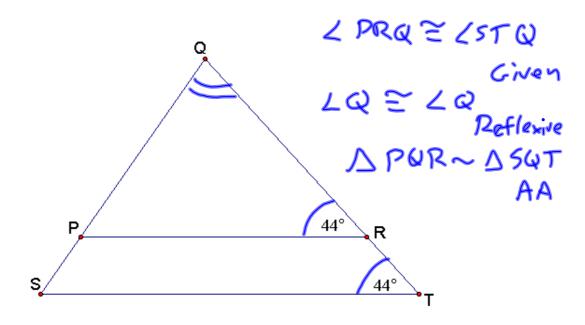


6-4 Notes.notebook December 19, 2012

Ex. 2 Determine whether the triangles are similar. If they are, write a similarity statement.

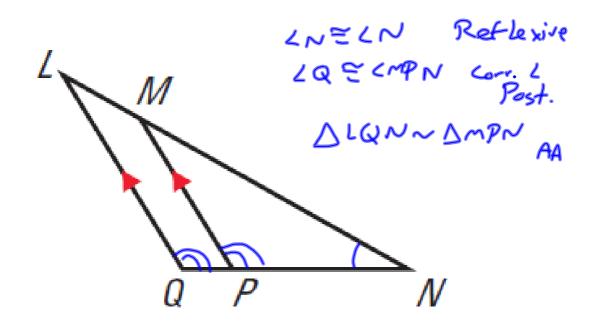


Ex 3 Show that the two triangles are similar.

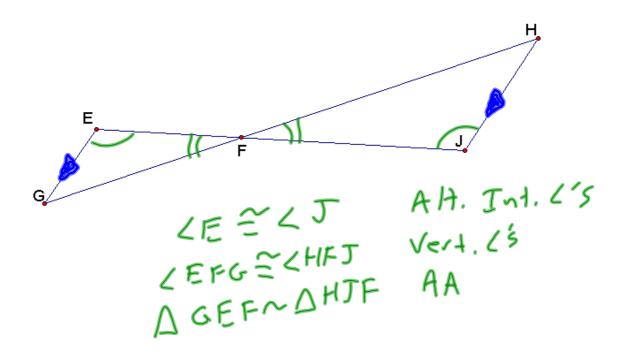


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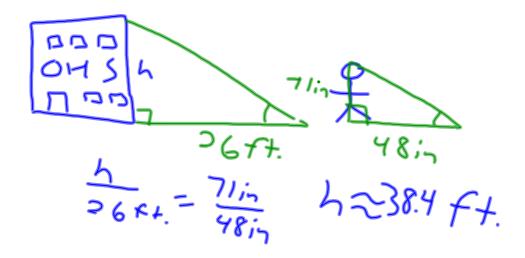
Ex. 4 Show that the two triangles are similar.



Ex 5 Show that the two triangles are similar.



Ex 6 Oregon High School casts a shadow that is 26 feet long. At the same time, a student who is 71 inches tall casts a shadow that is 48 inches long. How tall is OHS?



Ex. 7 A tree casts a shadow 15 feet long. A person who is 6 feet tall casts a shadow 2.5 feet long. How tall is the tree?