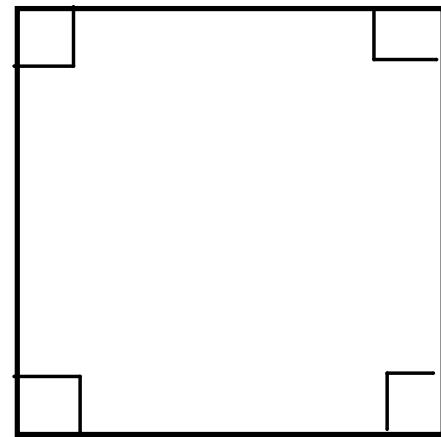
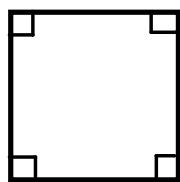


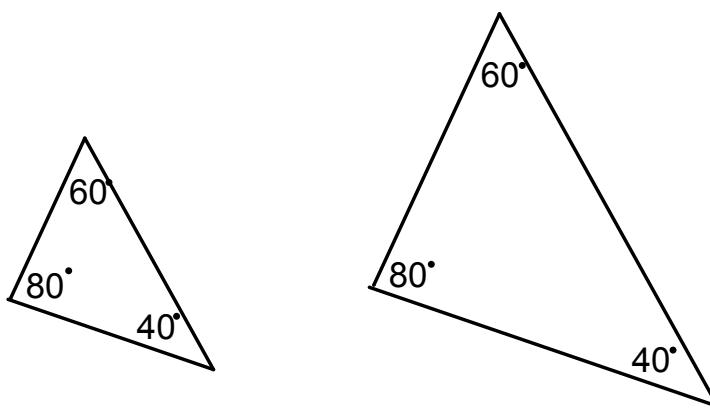
Do-now: Turn in Unit 7 - HW Handout #1.

Are the figures below similar?



Not enough info!
Need to know side lengths!

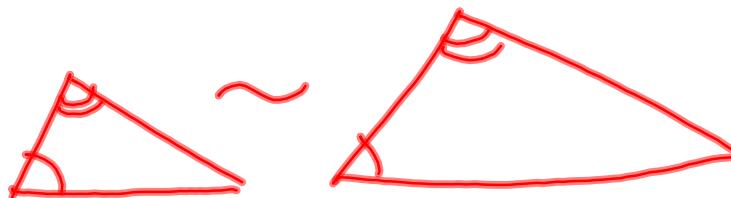
Are the figures below similar?



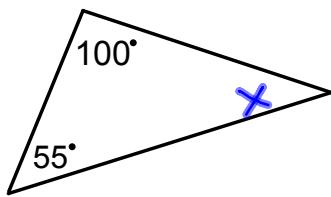
Yes!

Angle-Angle Similarity Postulate (AA~)

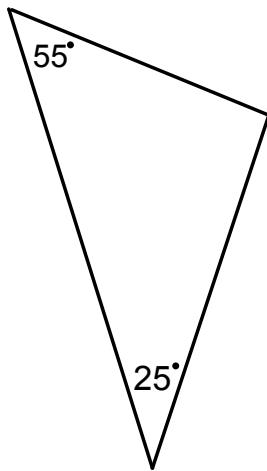
If 2 \triangle s of one \triangle are \cong
to 2 \triangle s of another \triangle , then
the 2 \triangle s are \sim .



Are the triangles below similar?



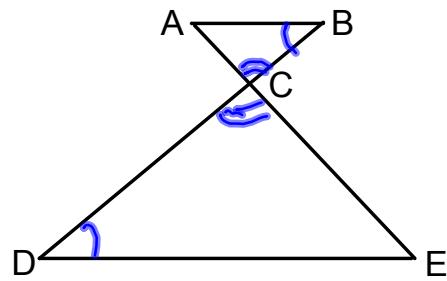
$$100 + 55 + x = 180$$
$$x = 25$$



Yes, AA~!

Given: AB || ED

Prove: $\triangle ABC \sim \triangle EDC$



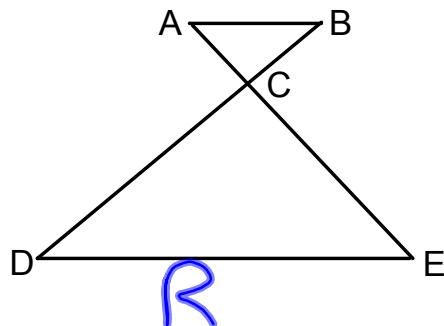
S

R

- | | |
|---|---|
| <ol style="list-style-type: none"> $\angle ACB \cong \angle ECD$ $\overline{AB} \parallel \overline{ED}$ $\angle B \cong \angle D$ $\triangle ABC \sim \triangle EDC$ | <ol style="list-style-type: none"> Vertical \angles are \cong Given A.H. mt. \angles are \cong A.F. |
|---|---|

Given: $AB \parallel ED$

Prove: $\frac{AC}{EC} = \frac{BC}{DC}$



- S
1. $\angle ACB \cong \angle ECD$
 2. $\overline{AB} \parallel \overline{ED}$
 3. $\angle B \cong \angle D$
 4. $\triangle ABC \sim \triangle EDC$
 5. $\frac{AC}{EC} = \frac{BC}{DC}$

- R
1. Vertical \angle s are \cong
 2. Given
 3. Alt. int. \angle s are \cong
 4. AA~
 5. Corresponding sides of $\sim \Delta$ s are proportional.

April 05, 2013

