

Name \_\_\_\_\_

Date \_\_\_\_\_

Math 8

Geometry 9

# Geometry - Similarity

Symbol:

Meaning:



If two triangles are similar, then two things are true.

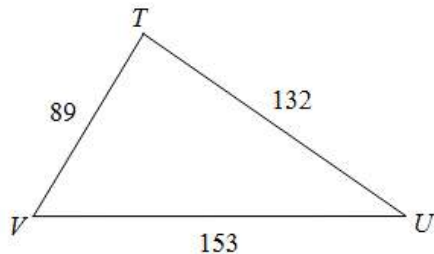
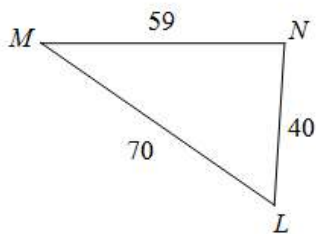
1. **Corresponding angles are congruent.**

*AA Similarity - If two angles of one triangle are congruent to two angles of another triangle, then the triangles are similar.*

2. **Corresponding sides are proportional.**

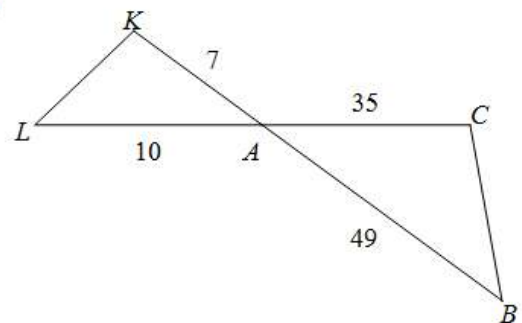
**Model Problems:** Determining if figures are similar. If they are similar, complete the similarity statement and explain why they are similar.

1)



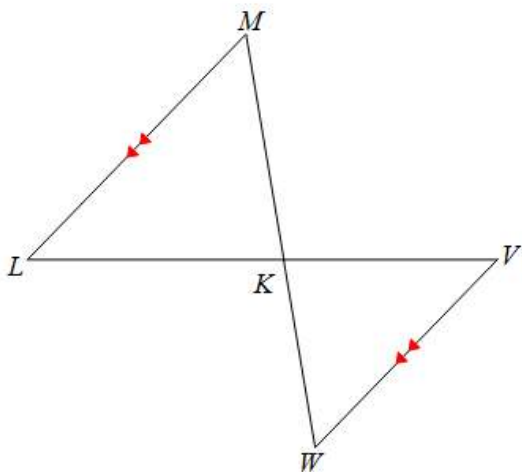
$\triangle VUT \sim$  \_\_\_\_\_

2)



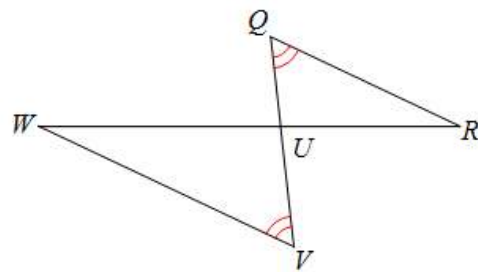
$\triangle ABC \sim$  \_\_\_\_\_

3)



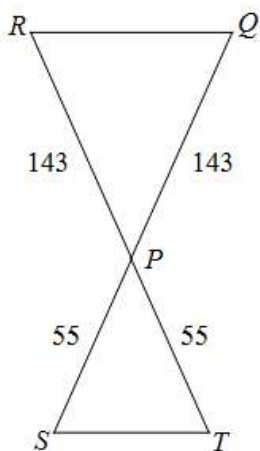
$\triangle KLM \sim$  \_\_\_\_\_

4)



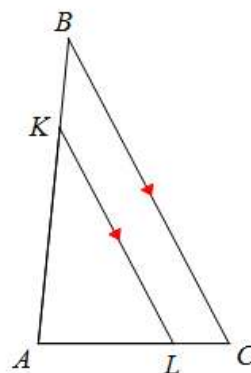
$\triangle UVW \sim$  \_\_\_\_\_

5)



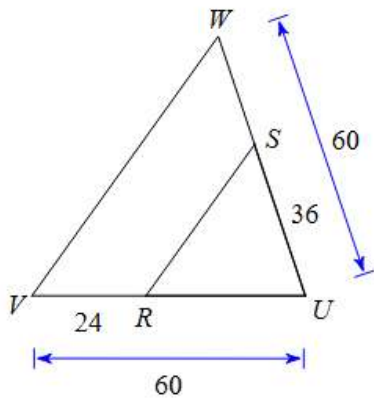
$\triangle PQR \sim$  \_\_\_\_\_

6)



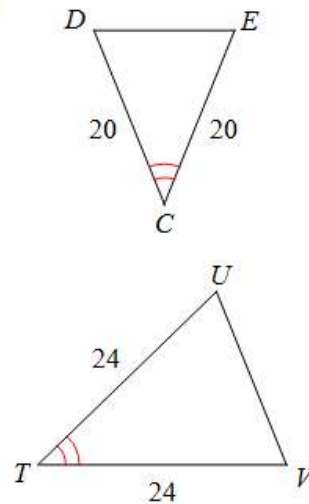
$\triangle ABC \sim$  \_\_\_\_\_

7)



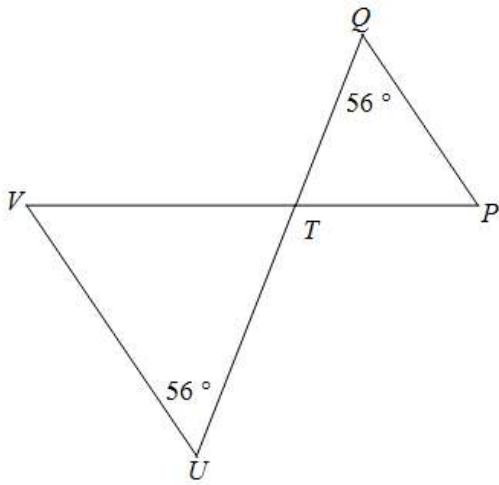
$\triangle UVW \sim$  \_\_\_\_\_

8)



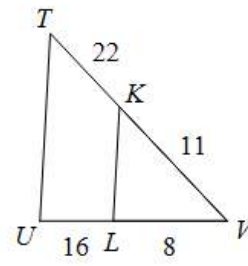
$\triangle TUV \sim$  \_\_\_\_\_

9)



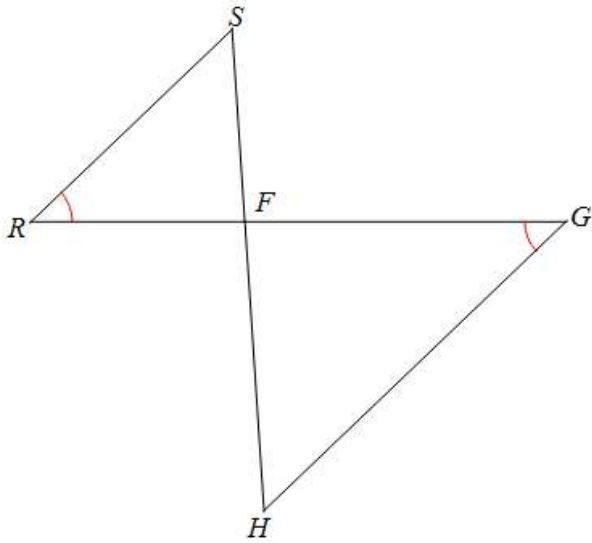
$\triangle TUV \sim$  \_\_\_\_\_

10)



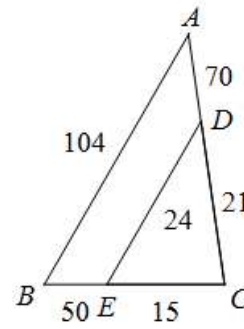
$\triangle VUT \sim$  \_\_\_\_\_

11)



$\triangle FGH \sim$  \_\_\_\_\_

12)



$\triangle CBA \sim$  \_\_\_\_\_