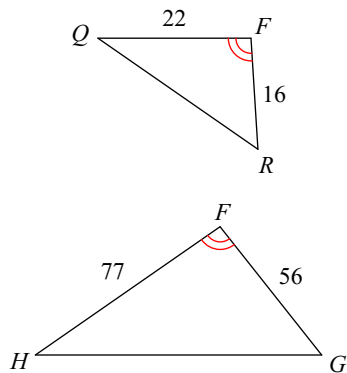


## Assignment #35

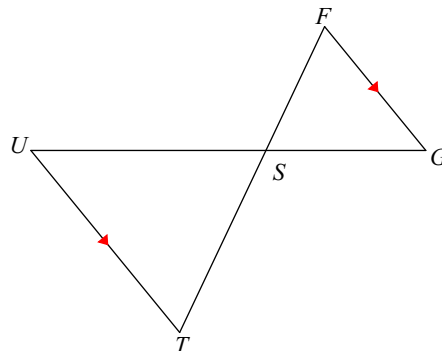
Period \_\_\_\_\_

State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.

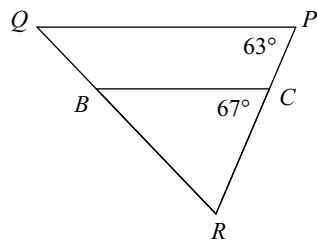
1)

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

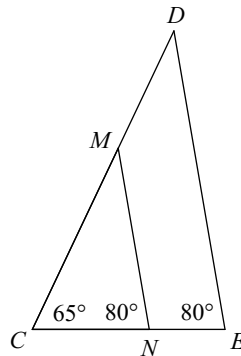
2)

 $\triangle STU \sim$  \_\_\_\_\_

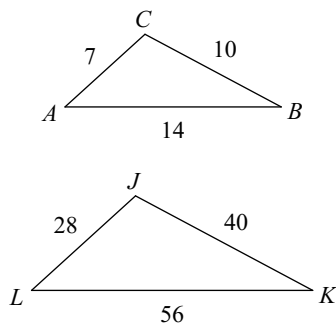
3)

 $\triangle RQP \sim$  \_\_\_\_\_

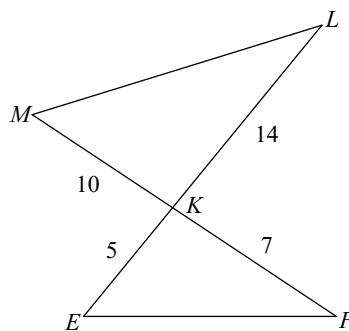
4)

 $\triangle CDE \sim$  \_\_\_\_\_

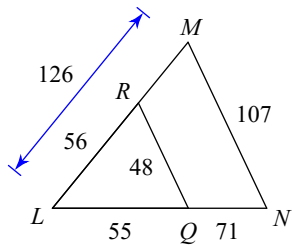
5)

 $\triangle JKL \sim$  \_\_\_\_\_

6)

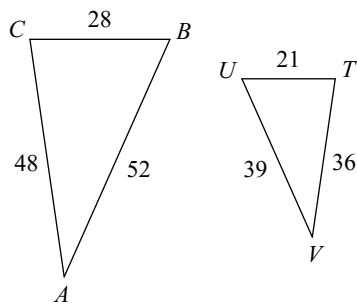
 $\triangle KLM \sim$  \_\_\_\_\_

7)



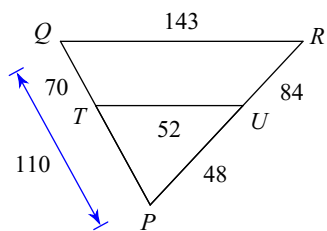
$$\triangle LMN \sim \underline{\hspace{2cm}}$$

9)



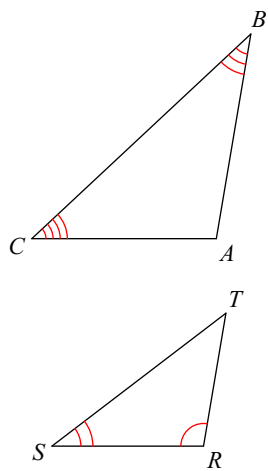
$$\triangle ABC \sim \underline{\hspace{2cm}}$$

11)



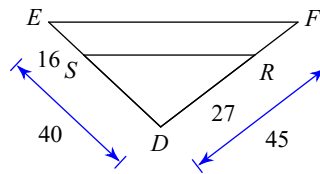
$$\triangle PQR \sim \underline{\hspace{2cm}}$$

13)



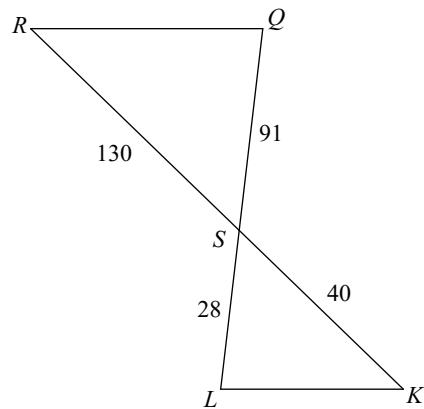
$$\triangle ABC \sim \underline{\hspace{2cm}}$$

8)



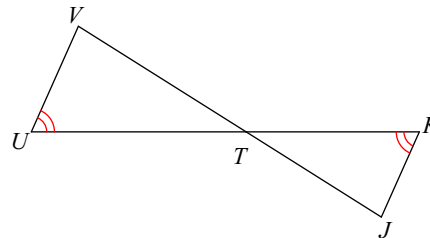
$$\triangle DEF \sim \underline{\hspace{2cm}}$$

10)



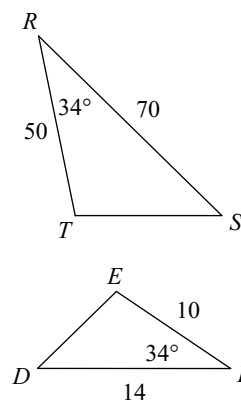
$$\triangle SRQ \sim \underline{\hspace{2cm}}$$

12)



$$\triangle TUV \sim \underline{\hspace{2cm}}$$

14)



$$\triangle RST \sim \underline{\hspace{2cm}}$$

## Answers to Assignment #35

- 1) similar; SAS similarity;  $\triangle FRQ$     2) similar; AA similarity;  $\triangle SFG$     3) not similar  
4) similar; AA similarity;  $\triangle CMN$     5) similar; SSS similarity;  $\triangle CBA$     6) similar; SAS similarity;  $\triangle KFE$   
7) not similar    8) similar; SAS similarity;  $\triangle DSR$     9) similar; SSS similarity;  $\triangle VUT$   
10) similar; SAS similarity;  $\triangle SKL$     11) similar; SSS similarity;  $\triangle PTU$   
12) similar; AA similarity;  $\triangle TKJ$     13) not similar  
14) similar; SAS similarity;  $\triangle RDE$