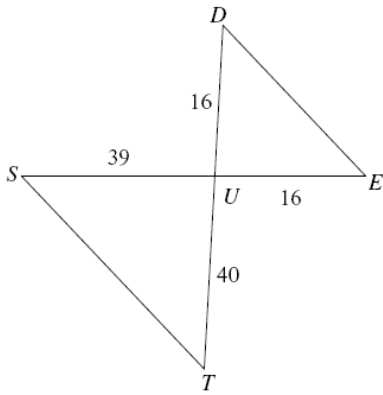


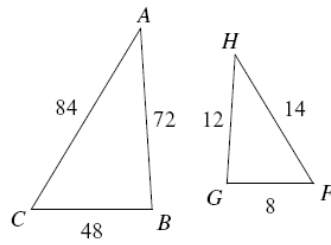
State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.

1)



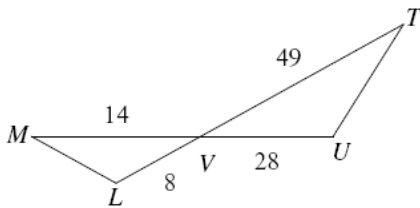
$\triangle UTS \sim$ _____

2)



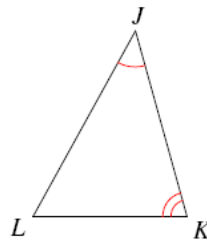
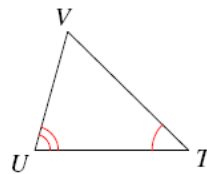
$\triangle CBA \sim$ _____

3)



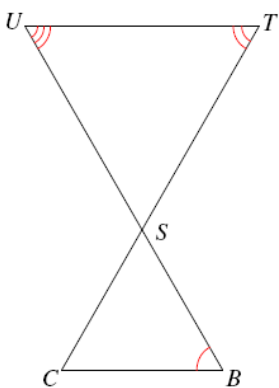
$\triangle VUT \sim$ _____

4)



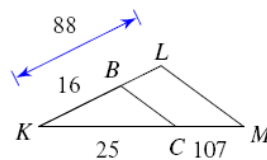
$\triangle JKL \sim$ _____

5)



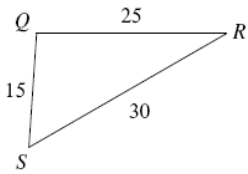
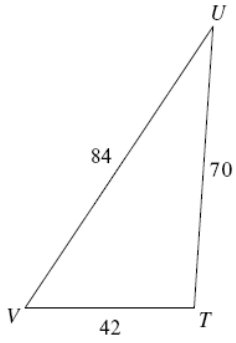
$\triangle STU \sim$ _____

6)



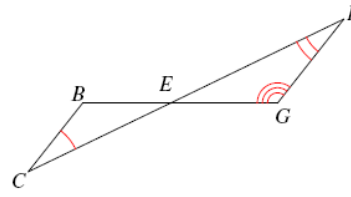
$\triangle KLM \sim$ _____

7)



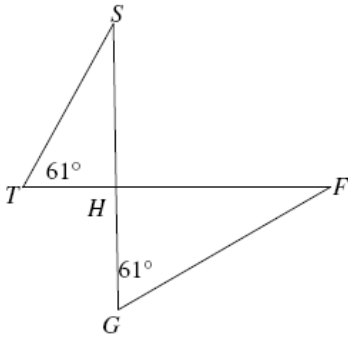
$\Delta TUV \sim$ _____

8)



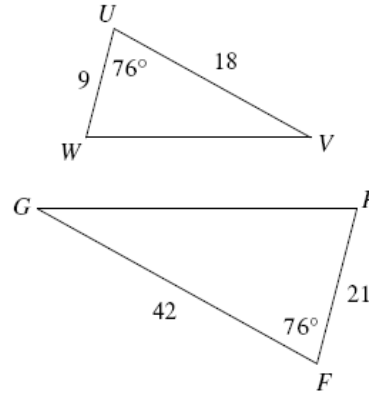
$\Delta EFG \sim$ _____

9)



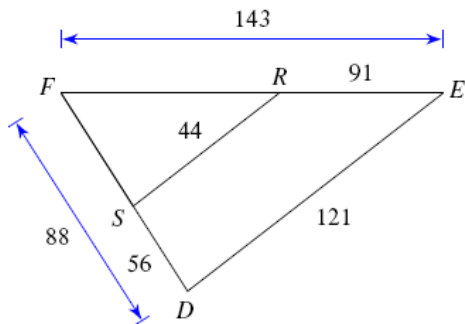
$\Delta HGF \sim$ _____

10)



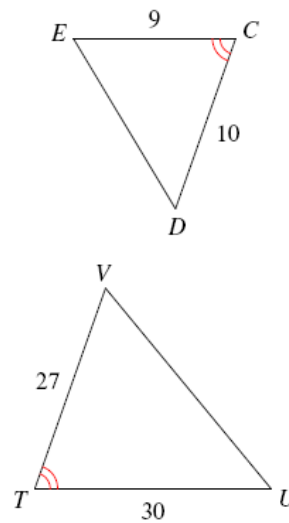
$\Delta FGH \sim$ _____

11)



$\Delta FED \sim$ _____

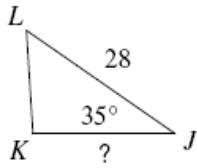
12)



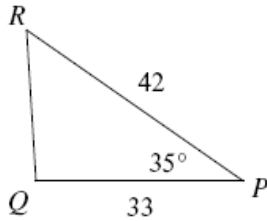
$\Delta TUV \sim$ _____

Find the missing length. The triangles in each pair are similar.

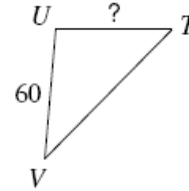
13)



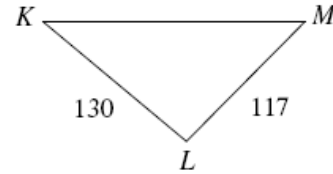
$$\triangle LKJ \sim \triangle RQP$$



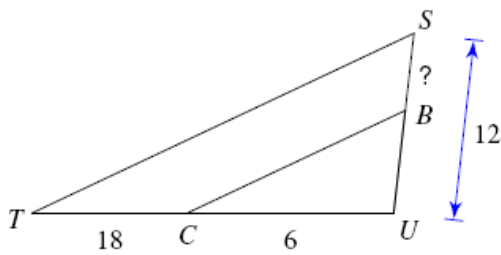
14)



$$\triangle UTV \sim \triangle LMK$$

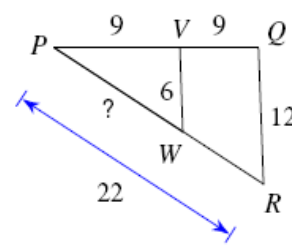


15)



$$\triangle TUS \sim \triangle CUB$$

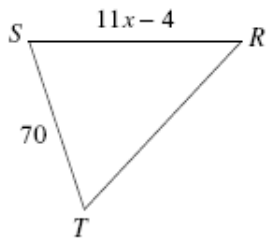
16)



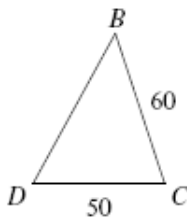
$$\triangle PQR \sim \triangle PVW$$

Solve for x. The triangles in each pair are similar.

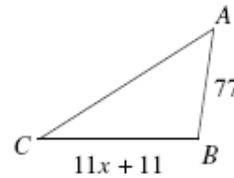
17)



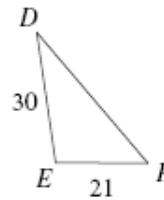
$$\triangle STR \sim \triangle CDB$$



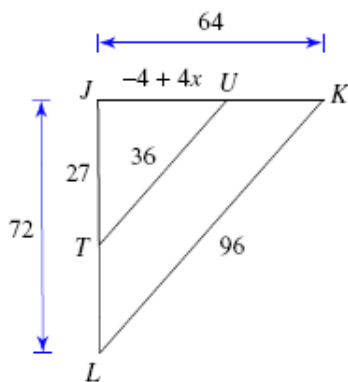
18)



$$\triangle ABC \sim \triangle FED$$

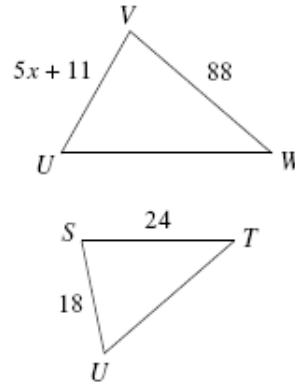


19)

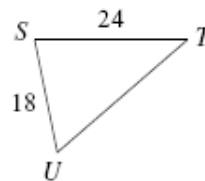


$$\triangle LJK \sim \triangle TJU$$

20)



$$\triangle UVW \sim \triangle UST$$



Word Problems:

21. A tree that is 24 feet tall casts a 12 ft. shadow on the ground. Brad is 6 ft. tall. How long is Brad's shadow. (Draw a picture to solve this problem)

22. Triangle EFG and Triangle QRS are similar. Triangle EFG has side lengths of 144, 128, and 112. The smallest side of Triangle QRS is 280. What is the longest side in Triangle QRS?