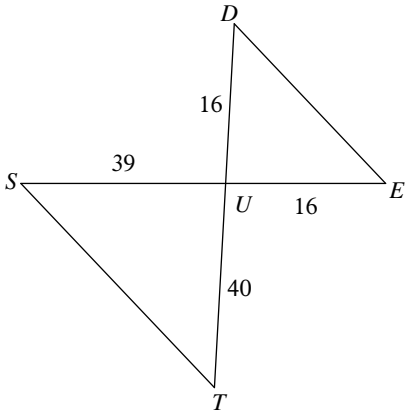
 Name_____

Similar Triangles

Date_____ Period____

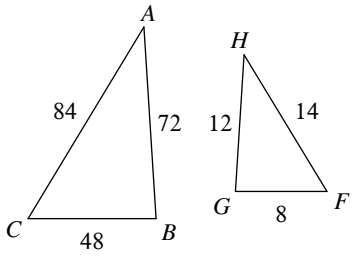
State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.

1)



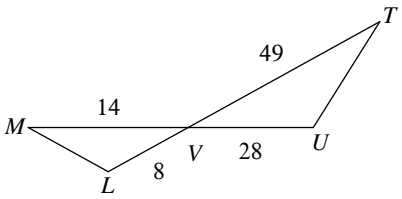
$\Delta UTS \sim$ _____

2)



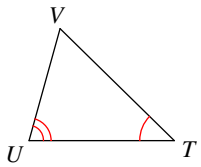
$\Delta CBA \sim$ _____

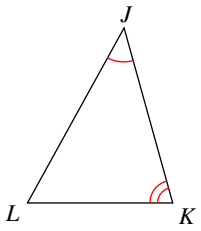
3)



$\Delta VUT \sim$ _____

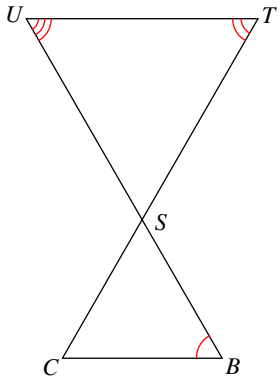
4)





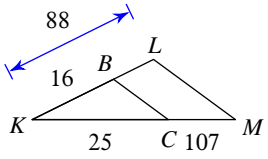
$\Delta JKL \sim$ _____

5)



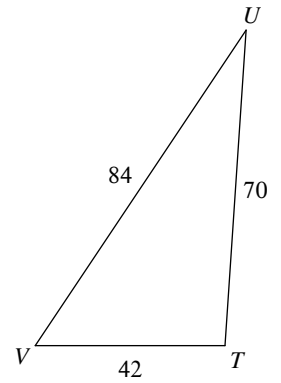
$\Delta STU \sim$ _____

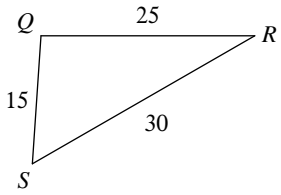
6)



$\Delta KLM \sim$ _____

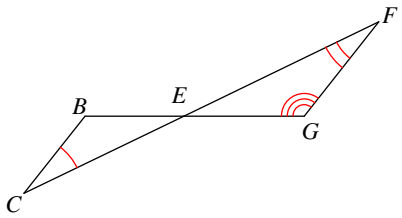
7)





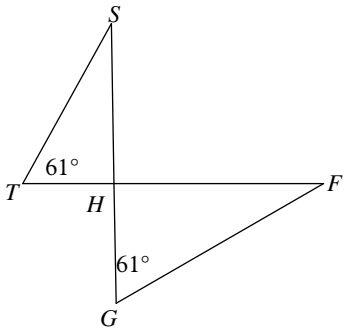
$\Delta TUV \sim$ _____

8)



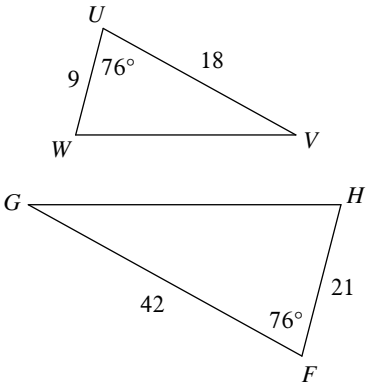
$\Delta EFG \sim$ _____

9)



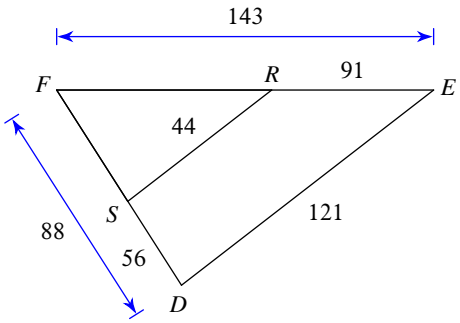
$\Delta HGF \sim$ _____

10)



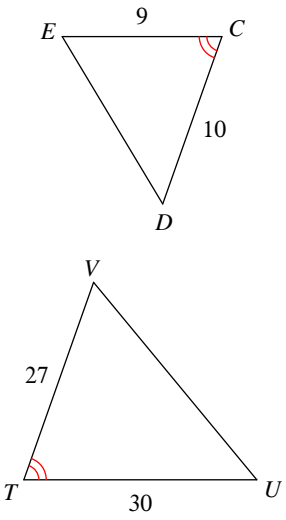
$\Delta FGH \sim$ _____

11)



$\Delta FED \sim$ _____

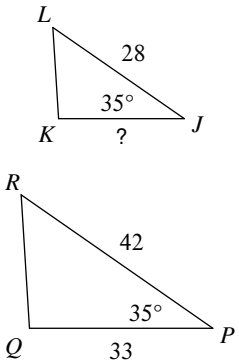
12)



$\Delta TUV \sim$ _____

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

13)



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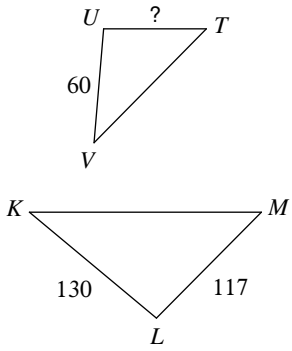
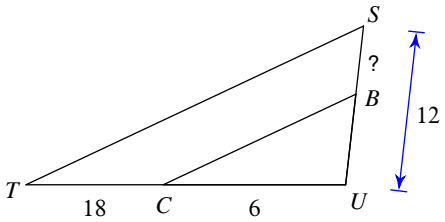
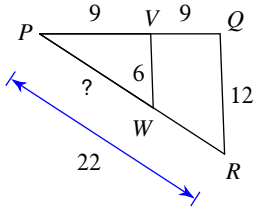


15)

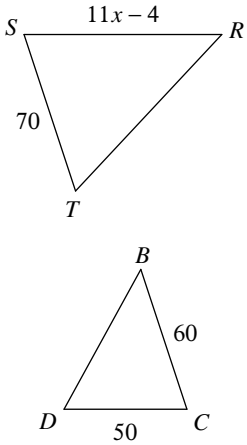


16)

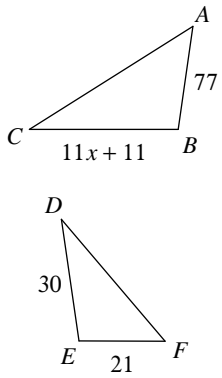


Solve for x. The triangles in each pair are similar.

17)



18)



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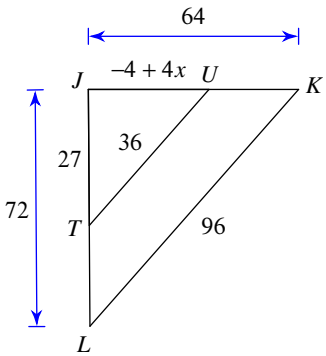
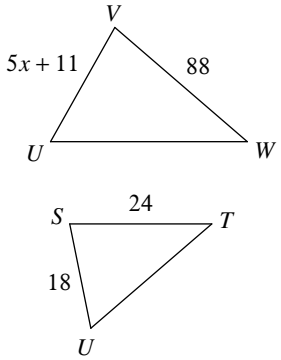


20)



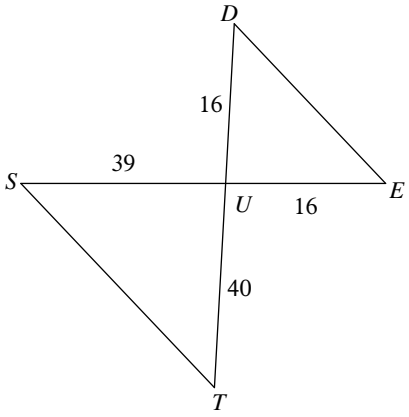
Kuta Software - Infinite Geometry Name_____

Similar Triangles

Date_____ Period____

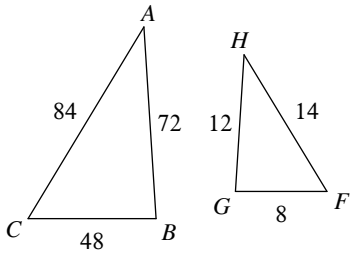
State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.

1) not similar



$\Delta UTS \sim$ _____

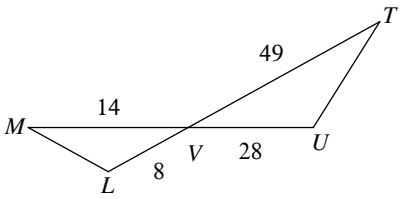
2)



$\Delta CBA \sim$ _____

similar; SSS similarity; ΔFGH

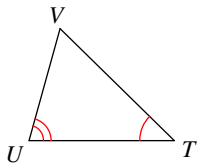
3)

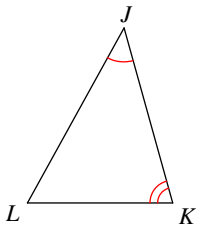


$\Delta VUT \sim$ _____

similar; SAS similarity; ΔVLM

4)

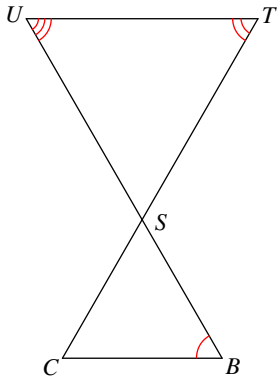




$\Delta JKL \sim$ _____

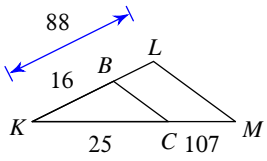
similar; AA similarity; ΔTUV

5) not similar



$\Delta STU \sim$ _____

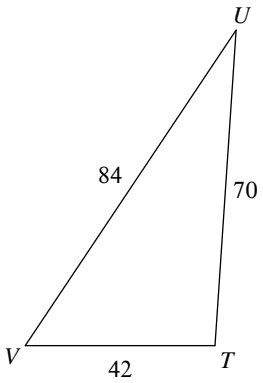
6)

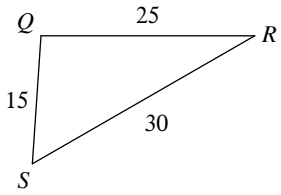


$\Delta KLM \sim$ _____

not similar

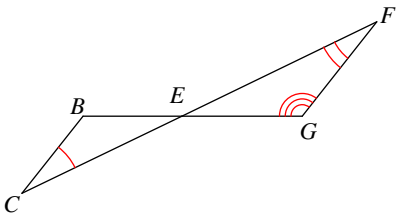
7) similar; SSS similarity; ΔQRS





$\Delta TUV \sim$ _____

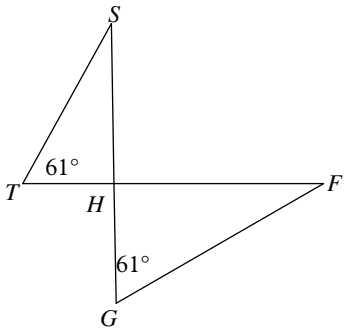
8)



$\Delta EFG \sim$ _____

not similar

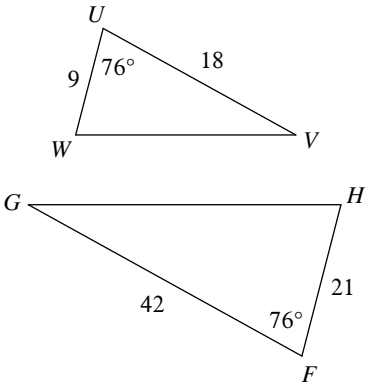
9)



$\Delta HGF \sim$ _____

similar; AA similarity; ΔHTS

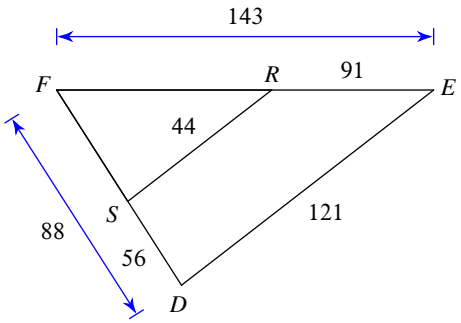
10)



$\Delta FGH \sim$ _____

similar; SAS similarity; ΔUVW

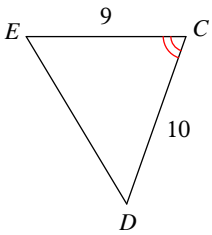
11)

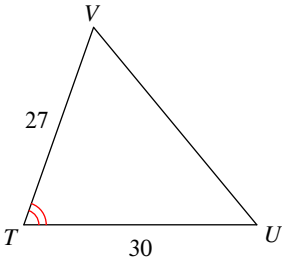


$\Delta FED \sim$ _____

similar; SSS similarity; ΔFRS

12)



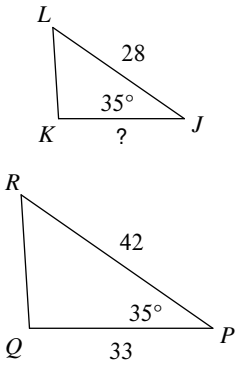


$\Delta TUV \sim$ _____

similar; SAS similarity; ΔCDE

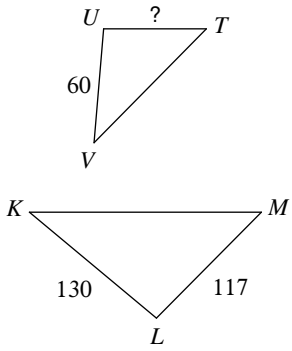
Find the missing length. The triangles in each pair are similar.

13)



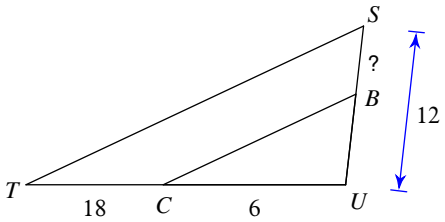
22

14)



54

15)



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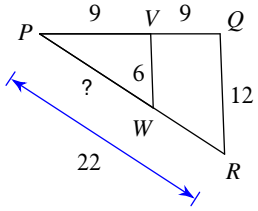
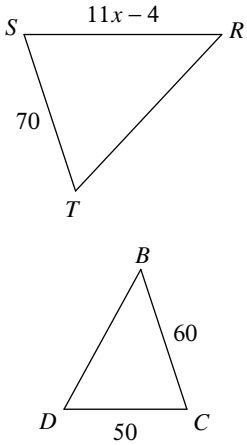
16)



11

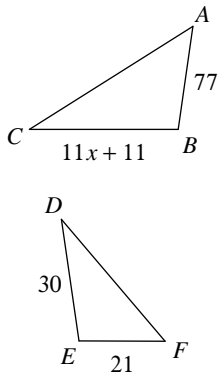
Solve for *x*. The triangles in each pair are similar.

17)



8

18)



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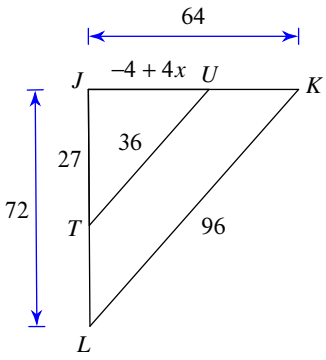
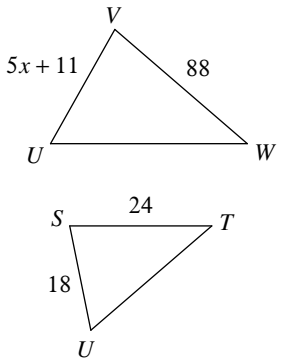


7

20)



11