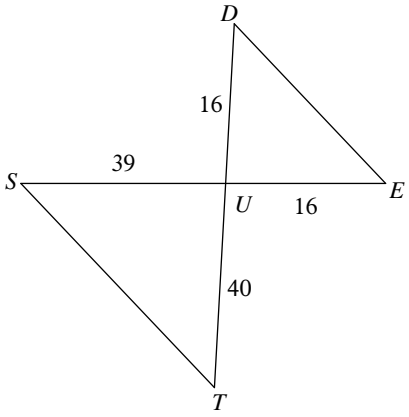
Similar Triangles

Date_____ Period____

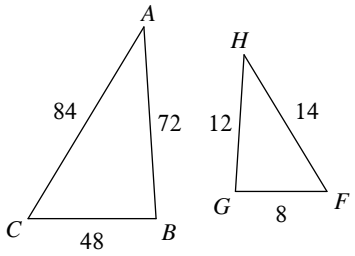
State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.

1)



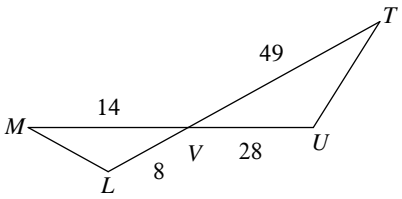
$\Delta UTS \sim$ _____

2)



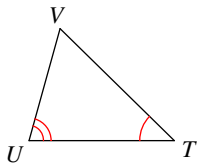
$\Delta CBA \sim$ _____

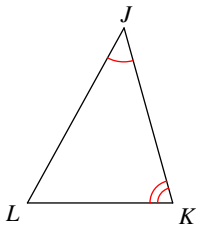
3)



$\Delta VUT \sim$ _____

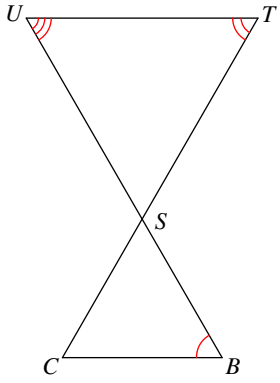
4)





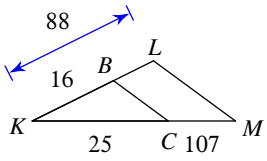
$\Delta JKL \sim$ _____

5)



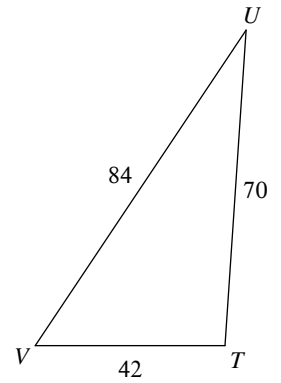
$\Delta STU \sim$ _____

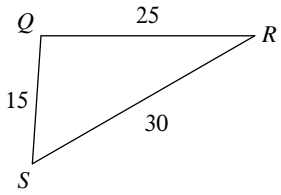
6)



$\Delta KLM \sim$ _____

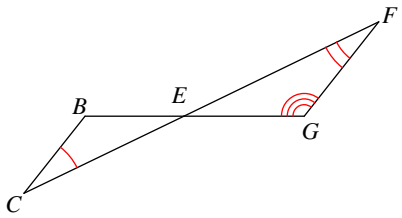
7)





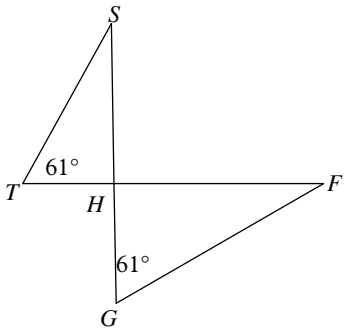
$\Delta TUV \sim$ _____

8)



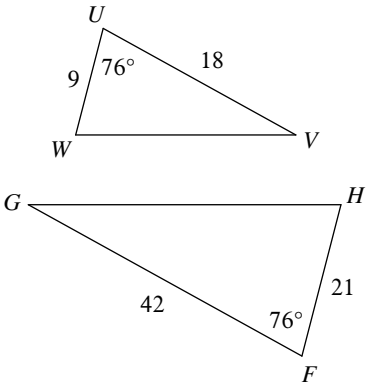
$\Delta EFG \sim$ _____

9)



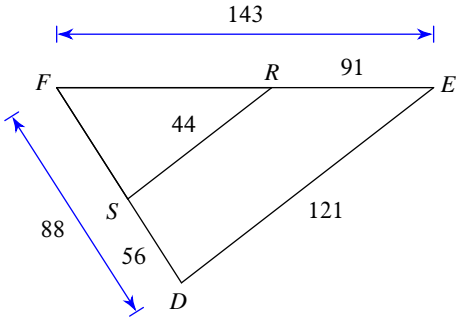
$\Delta HGF \sim$ _____

10)



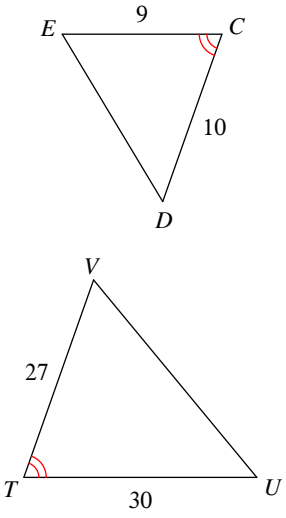
$\Delta FGH \sim$ _____

11)



$\Delta FED \sim$ _____

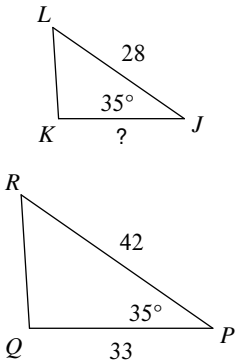
12)



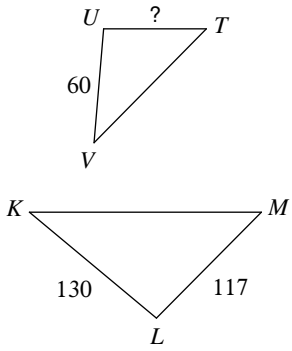
$\Delta TUV \sim$ _____

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

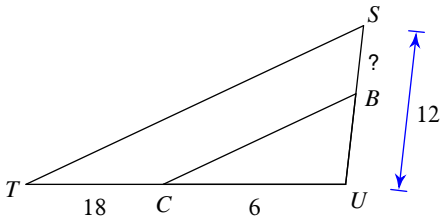
13)



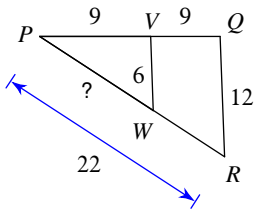
14)



15)

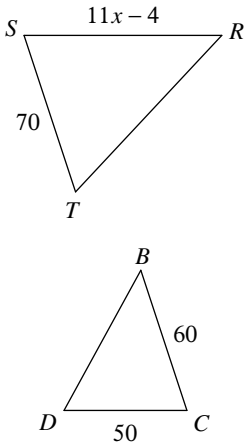


16)

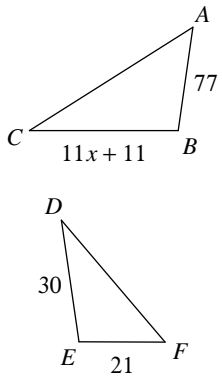


Solve for x. The triangles in each pair are similar.

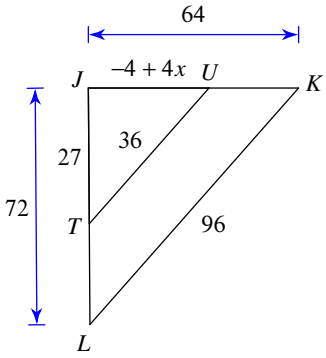
17)



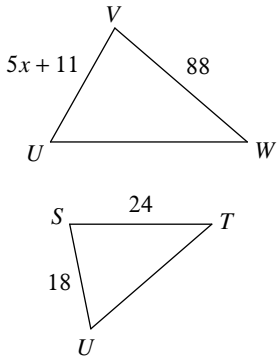
18)



19)



20)



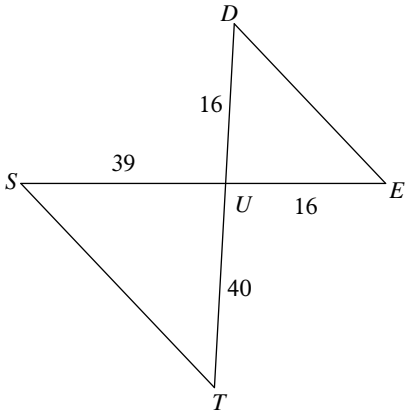
Kuta Software - Infinite Geometry Name_____

Similar Triangles

Date_____ Period____

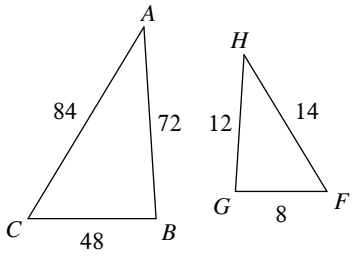
State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.

1) not similar



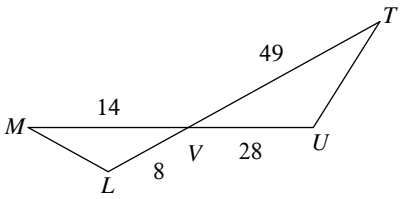
$\Delta UTS \sim$ _____

2) similar; SSS similarity; ΔFGH



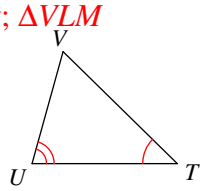
$\Delta CBA \sim$ _____

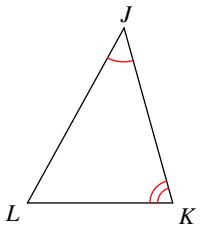
3) similar; SAS similarity; ΔVLM



$\Delta VUT \sim$ _____

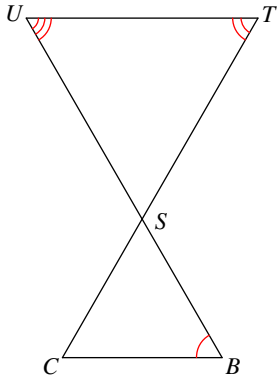
4) similar; AA similarity; ΔTUV





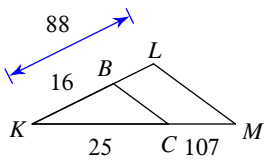
$\Delta JKL \sim$ _____

5) not similar



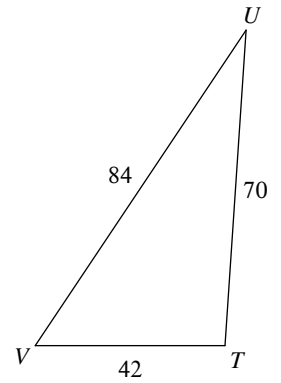
$\Delta STU \sim$ _____

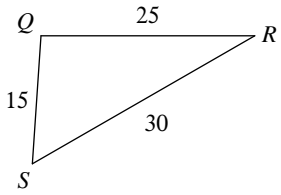
6) not similar



$\Delta KLM \sim$ _____

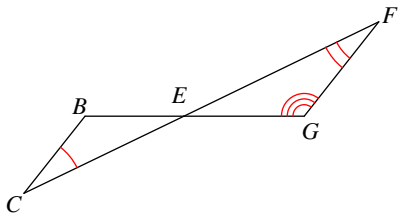
7) similar; SSS similarity; ΔQRS





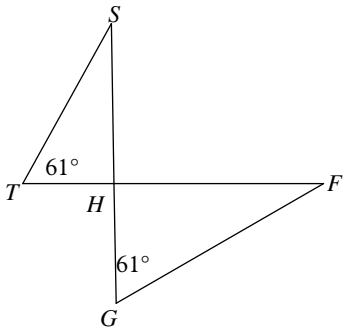
$\Delta TUV \sim$ _____

8) not similar



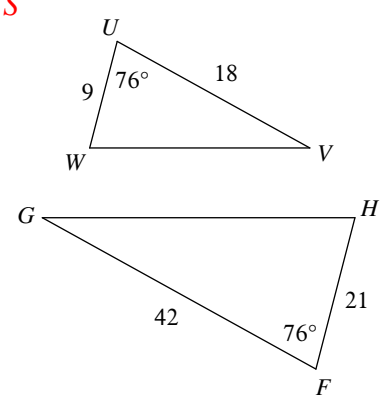
$\Delta EFG \sim$ _____

9) similar; AA similarity; ΔHTS



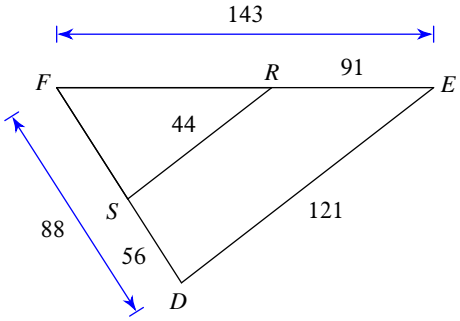
$\Delta HGF \sim$ _____

10) similar; SAS similarity; ΔUV



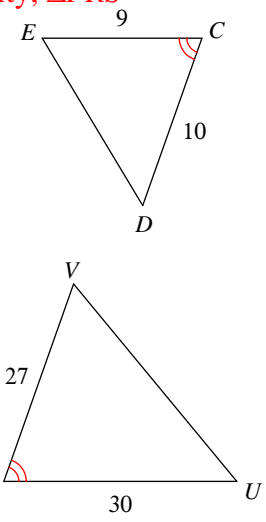
$\Delta FGH \sim$ _____

11) similar; SSS similarity; ΔFRS



$\Delta FED \sim$ _____

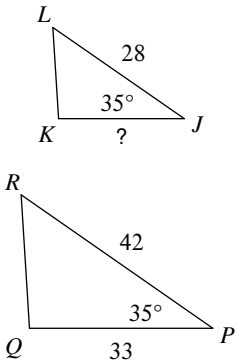
12) similar; SAS similarity; ΔCDE



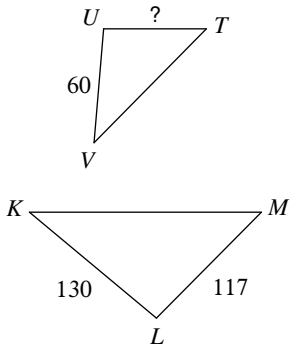
$\Delta TUV \sim$ _____

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

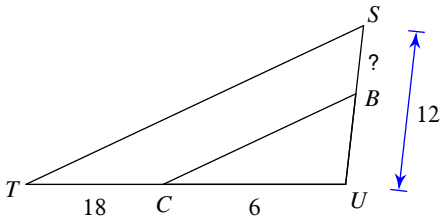
13) 22



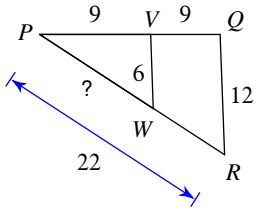
14) 54



15) 9

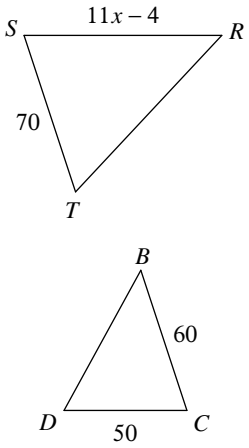


16) 11

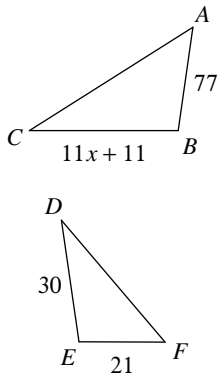


Solve for *x*. The triangles in each pair are similar.

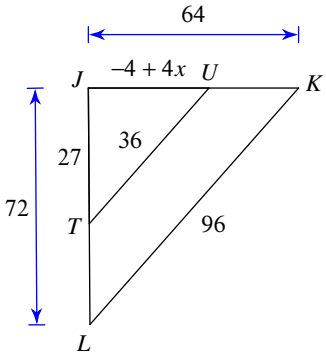
17) 8



18) 9



19) 7



20) 11