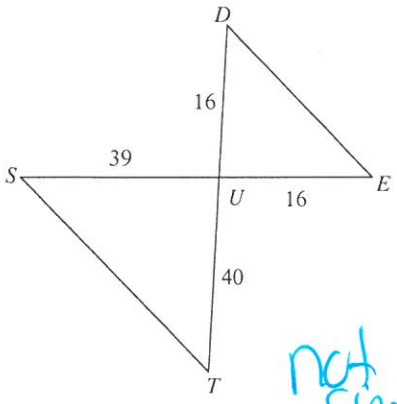
Kuta Software - Infinite Geometry Name_____

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.

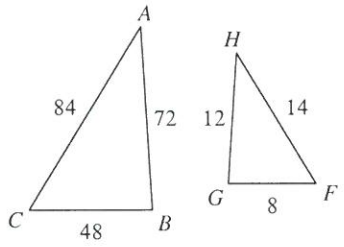
1)



not Similar

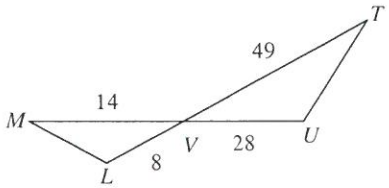
$\Delta UTS \sim$ _____

2)



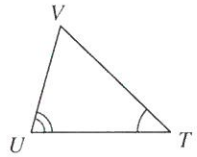
$\Delta CBA \sim$ ΔFGH SSS

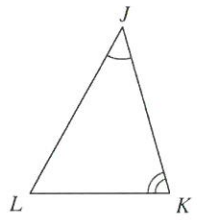
3)



$\Delta VUT \sim$ ΔVLM SAS

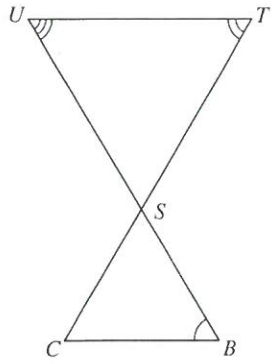
4)





$\Delta JKL \sim$ ΔTUV AA

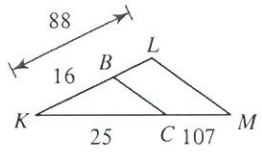
5)



$\Delta STU \sim$ _____

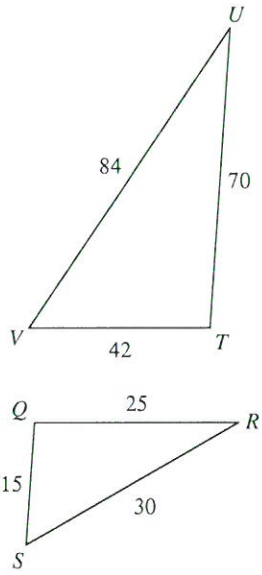
not similar

6)



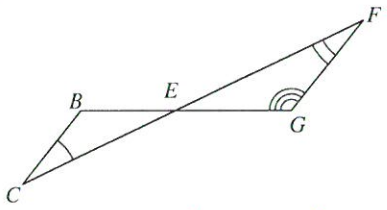
$\Delta KLM \sim$ not similar

7)



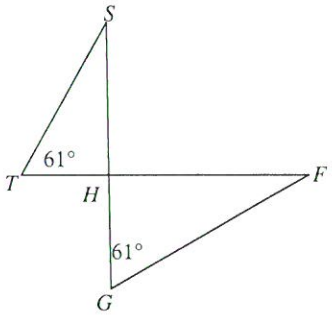
$\Delta TUV \sim$ ΔQRS SSS

8)



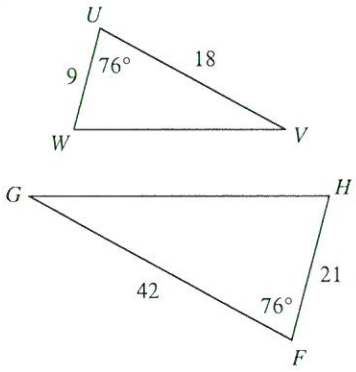
$\Delta EFG \sim$ not similar

9)



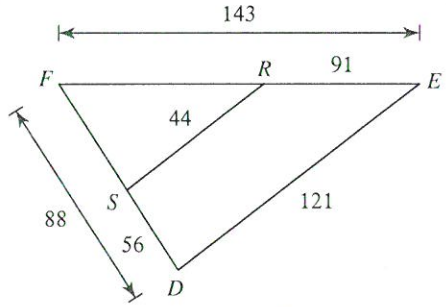
$\Delta HGF \sim$ ΔHTS AA

10)



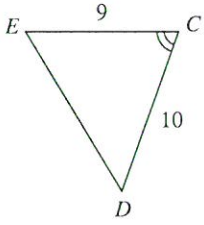
$\Delta FGH \sim$ ΔUVW SAS

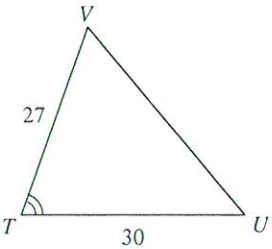
11)



$\Delta FED \sim$ ΔFRS SSS

12)

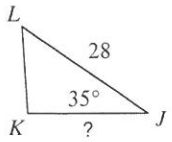




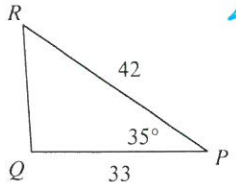
$\Delta TUV \sim$ ΔCDE SAS

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

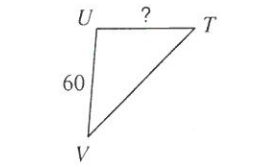
13)



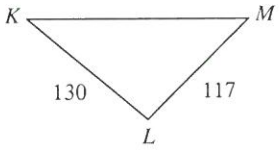
22



14)



54



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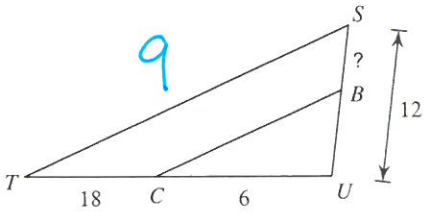
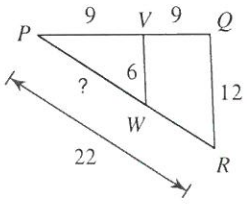


9

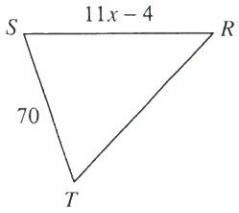
16)



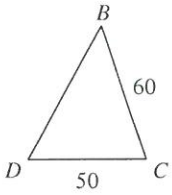
11

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

17)



8



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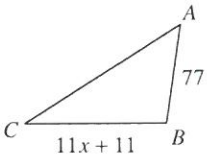
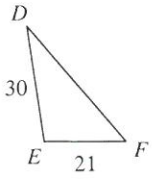


9



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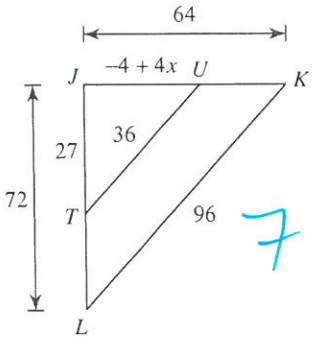
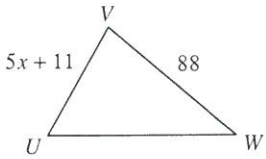
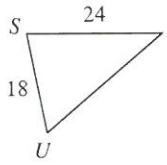


7

20)





11

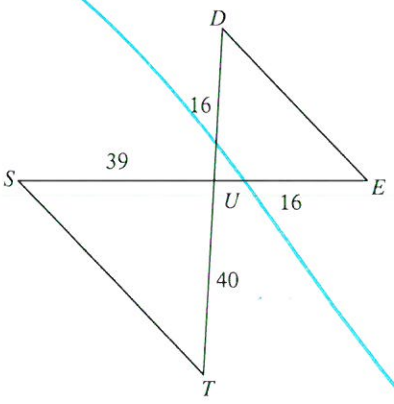
Kuta Software - Infinite Geometry Name_____

Similar Triangles

Date_____ Period____

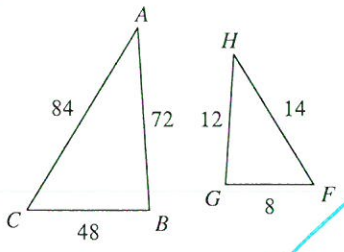
State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.

1) not similar



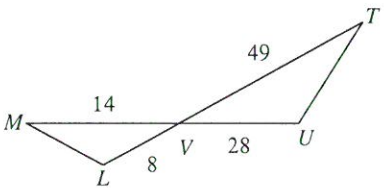
$\Delta UTS \sim$ _____

2) similar; SSS similarity; ΔFGH



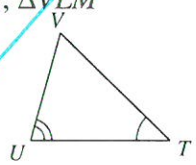
$\Delta CBA \sim$ _____

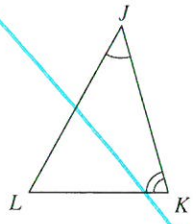
3) similar; SAS similarity; ΔVLM



$\Delta VUT \sim$ _____

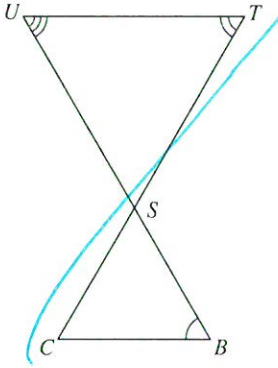
4) similar; AA similarity; ΔTUV





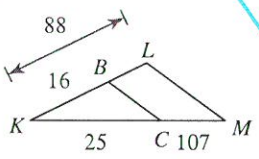
$\Delta JKL \sim$ _____

5) not similar



$\Delta STU \sim$ _____

6) not similar



$\Delta KLM \sim$ _____