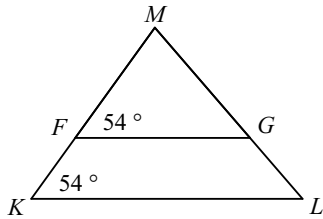


6.2 ~ Similar Triangle Theorems

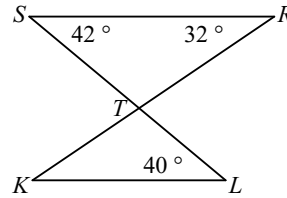
Determine whether the triangles shown are similar. Use the definition of similar triangles and your knowledge of the similar triangle theorems to explain your reasoning. If the triangles are similar, identify the similarity theorem and complete the similarity statement.

1)



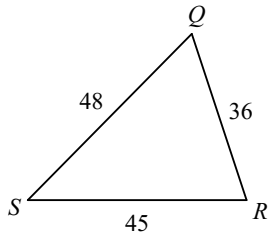
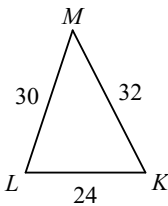
$\triangle MLK \sim$ _____

2)



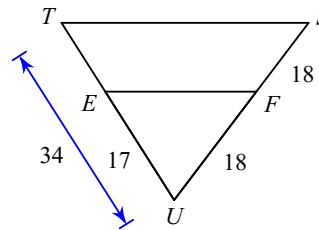
$\triangle TSR \sim$ _____

3)



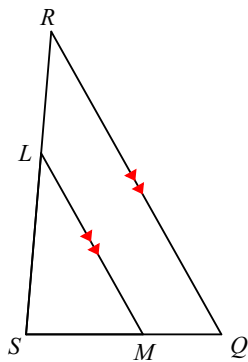
$\triangle QRS \sim$ _____

4)



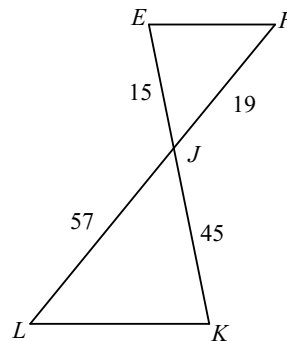
$\triangle UTS \sim$ _____

5)



$\triangle SRQ \sim$ _____

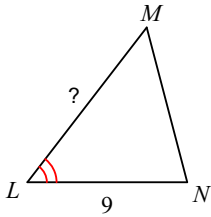
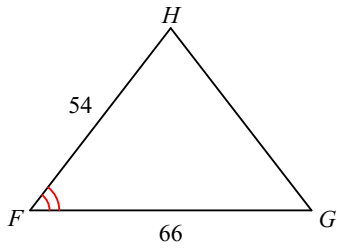
6)



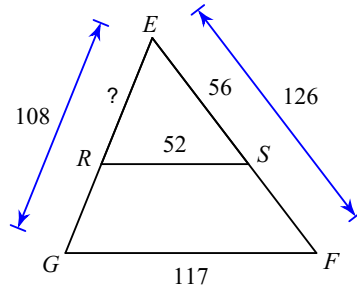
$\triangle JKL \sim$ _____

The triangles shown are similar. Identify the similarity theorem: AA, SSS, or SAS. Set up and solve a proportion to find the missing segment length.

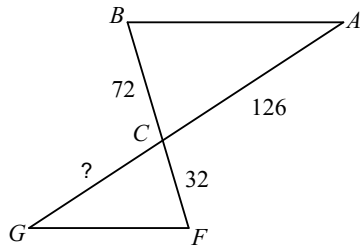
7)



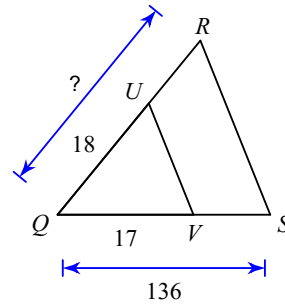
8)



9)

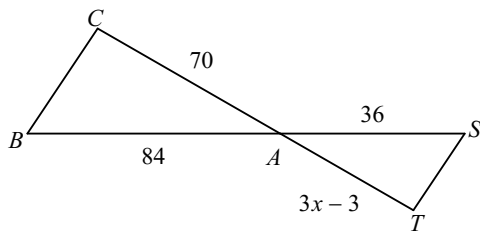


10)

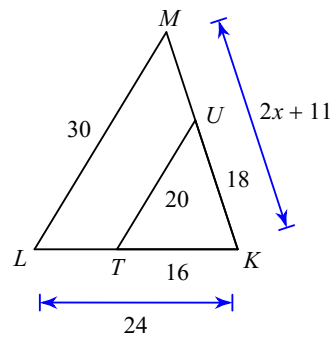


The triangles shown are similar. Identify the similarity theorem: AA, SSS, or SAS. Set up and solve a proportion to find the value of x .

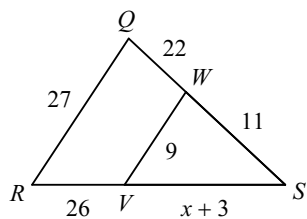
11)



12)



13)



14)

