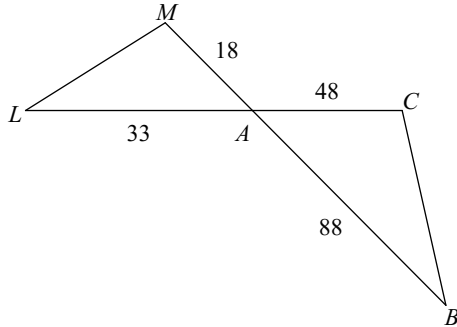


Similar Triangles 3

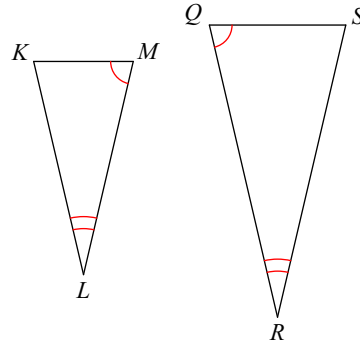
State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.

1)



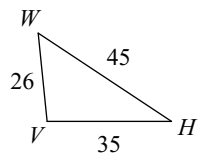
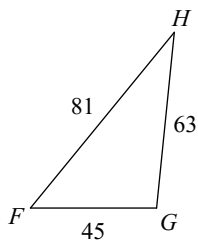
$\triangle ABC \sim$ _____

2)



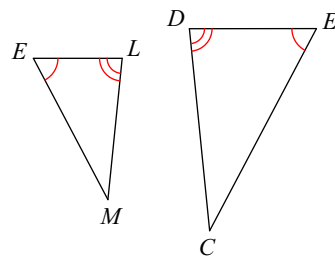
$\triangle QRS \sim$ _____

3)



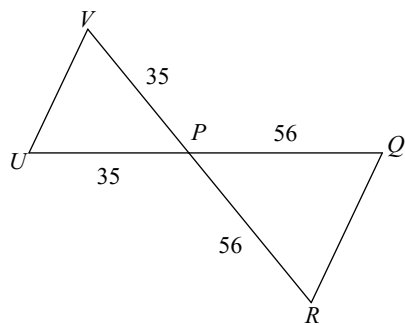
$\triangle HGF \sim$ _____

4)



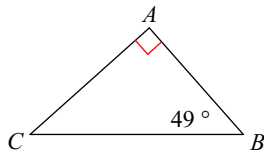
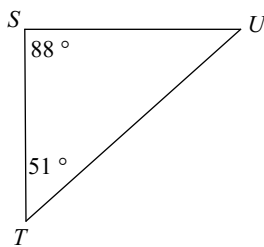
$\triangle EDC \sim$ _____

5)



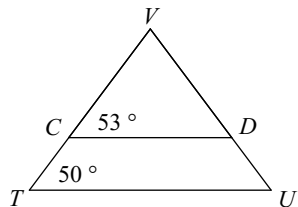
$\triangle PQR \sim$ _____

6)



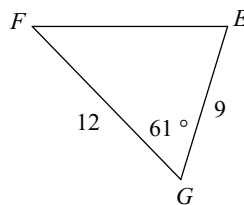
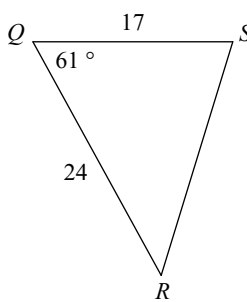
$\triangle STU \sim$ _____

7)



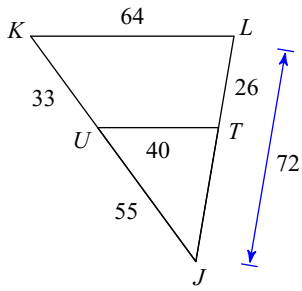
$\triangle VUT \sim$ _____

8)



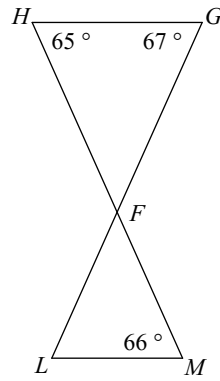
$\triangle QRS \sim$ _____

9)



$\triangle JKL \sim$ _____

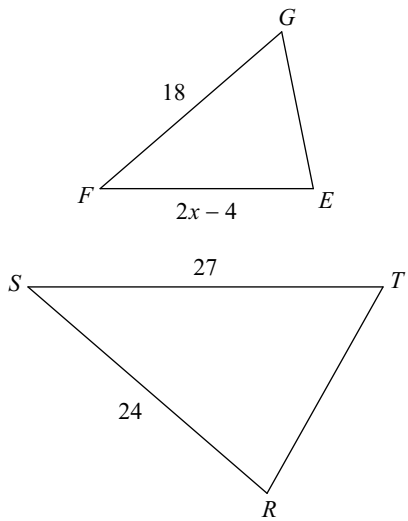
10)



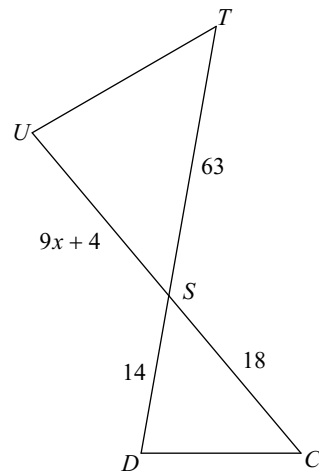
$\triangle FGH \sim$ _____

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

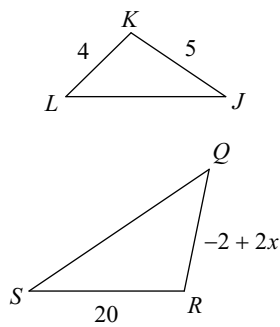
11)



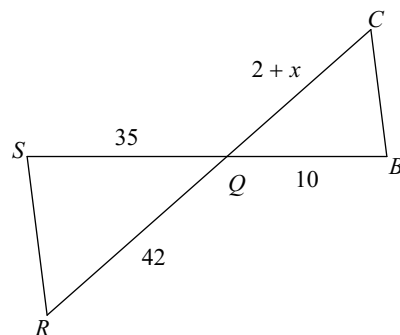
12)



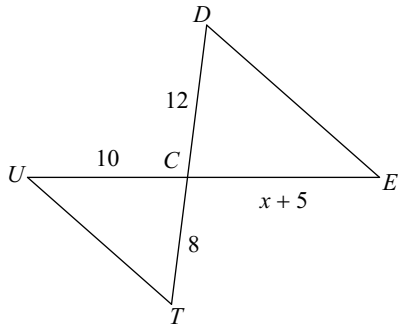
13)



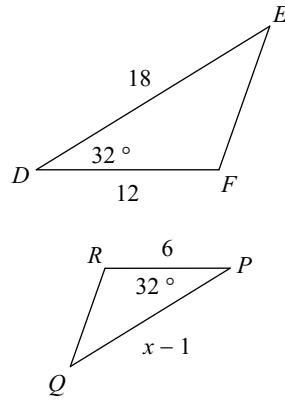
14)



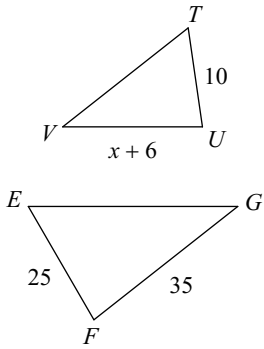
15)



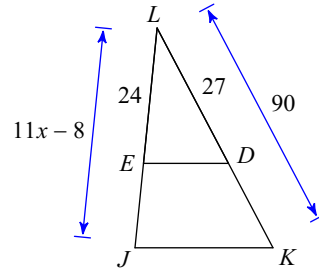
16)



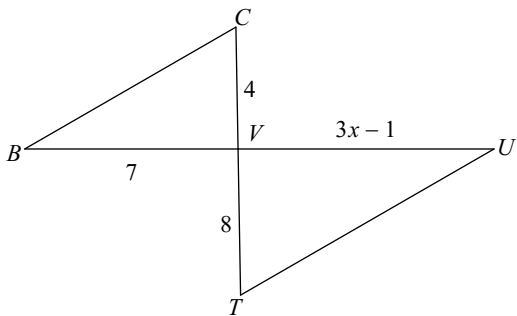
17)



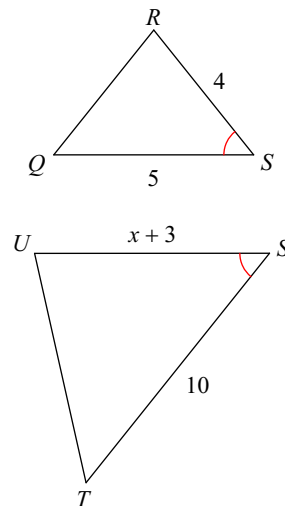
18)



19)



20)



Answers to Similar Triangles 3 (ID: 1)

- | | | | |
|---|--|-----------------|--------|
| 1) similar; SAS similarity; $\triangle ALM$ | 2) similar; AA similarity; $\triangle MLK$ | | |
| 3) not similar | 4) similar; AA similarity; $\triangle ELM$ | | |
| 5) similar; SAS similarity; $\triangle PUV$ | 6) not similar | 7) not similar | |
| 8) not similar | 9) not similar | 10) not similar | 11) 10 |
| 12) 5 | 13) 9 | 14) 10 | 15) 10 |
| 16) 10 | 17) 8 | 18) 8 | 19) 5 |
| 20) 5 | | | |