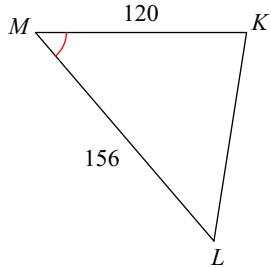


Similarity Theorems and Triangle Proportionality Theorem

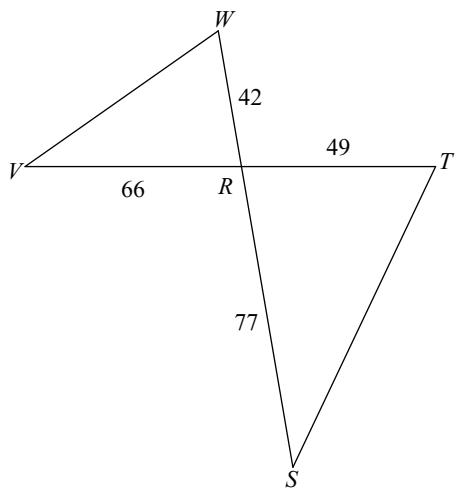
Date _____

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

1)



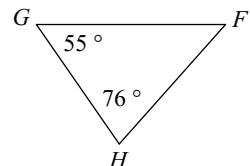
2)



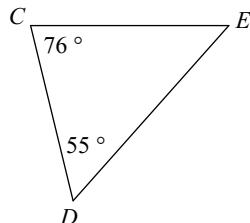
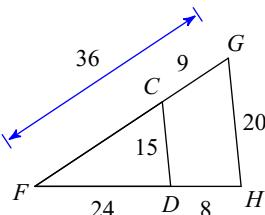
$$\triangle MLK \sim \underline{\hspace{2cm}}$$

$$\triangle RST \sim \underline{\hspace{2cm}}$$

3)



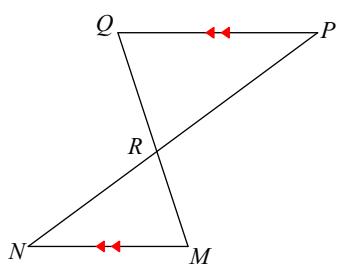
4)



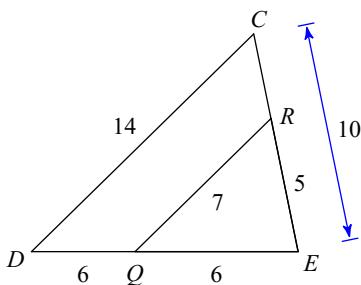
$$\triangle FGH \sim \underline{\hspace{2cm}}$$

$$\triangle CDE \sim \underline{\hspace{2cm}}$$

5)



6)

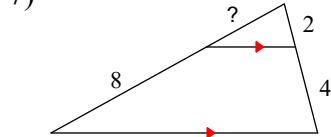


$$\triangle RQP \sim \underline{\hspace{2cm}}$$

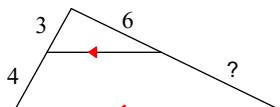
$$\triangle EDC \sim \underline{\hspace{2cm}}$$

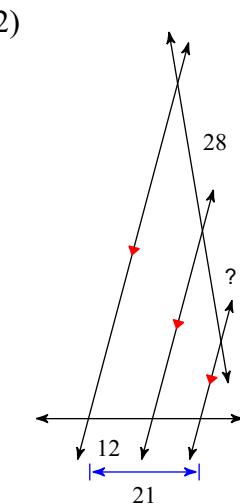
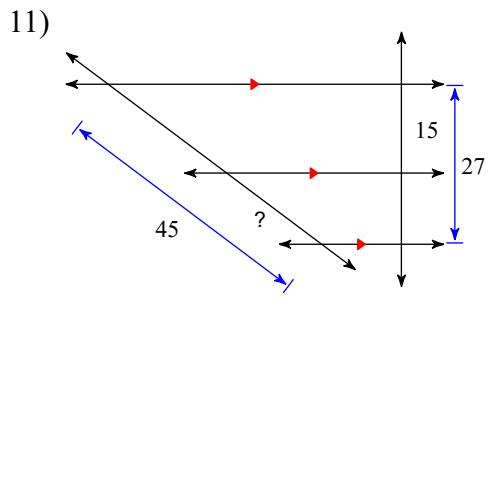
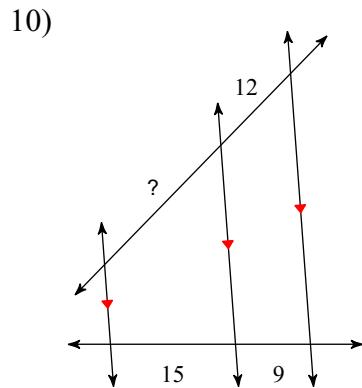
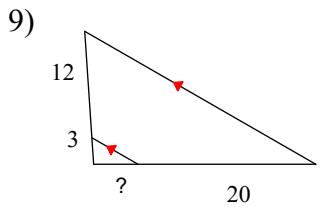
Find the missing length indicated.

7)

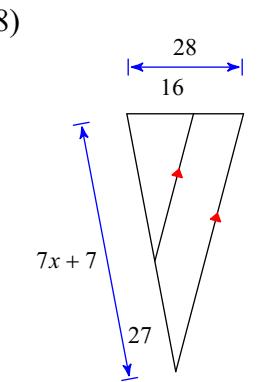
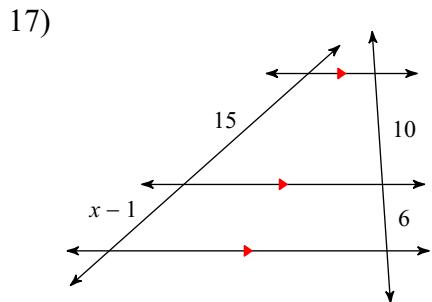
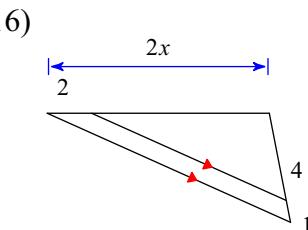
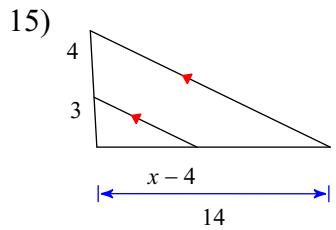
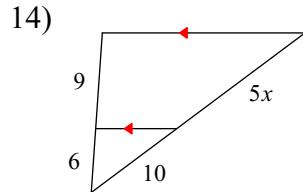
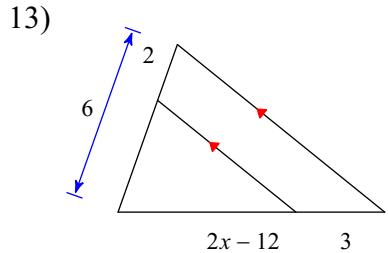


8)





Solve for x .



Answers to Similarity Theorems and Triangle Proportionality Theorem

- | | |
|---|--|
| 1) similar; SAS similarity; $\triangle MFE$ | 3) similar; AA similarity; $\triangle HGF$ |
| 5) similar; AA similarity; $\triangle RMN$ | 7) 4 |
| 11) 20 | 13) 9 |
| | 15) 10 |
| | 17) 10 |