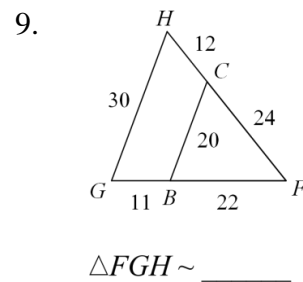
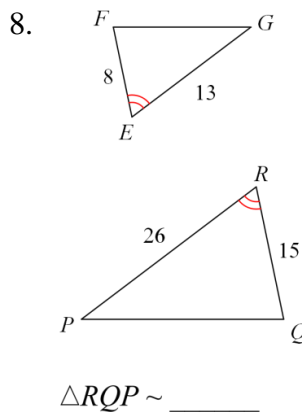
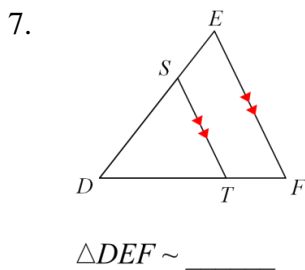
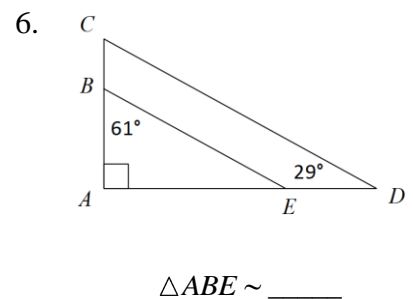
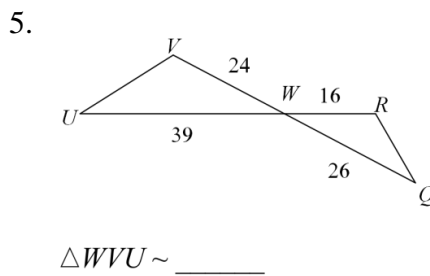
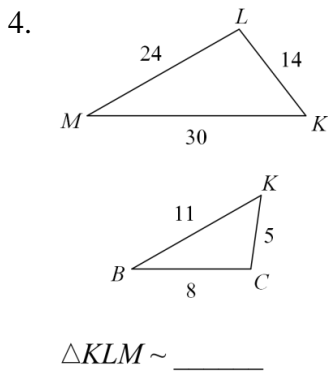
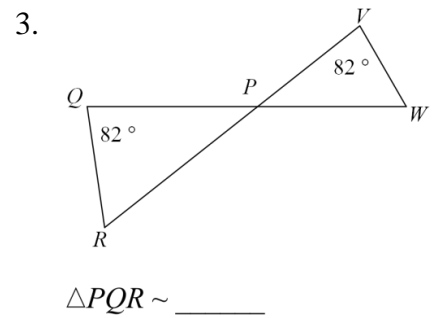
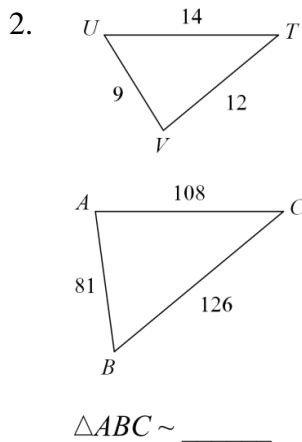
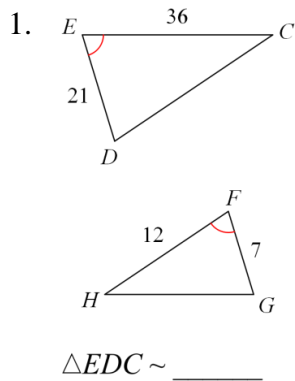


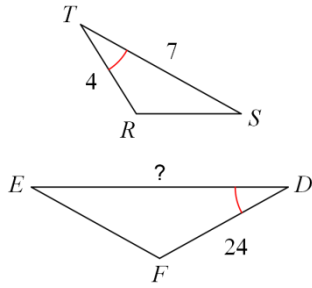
SM2 10.4– Triangle Similarity Theorems

1. List any pairs of congruent angles and give a reason why each pair is congruent.
2. Determine whether corresponding sides are proportional by checking if their ratios are equal.
3. State which similarity test (AA, SSS, SAS) can be used to determine if the triangles are similar.
4. If the triangles are similar, complete the similarity statement. If they aren't, write "not similar".

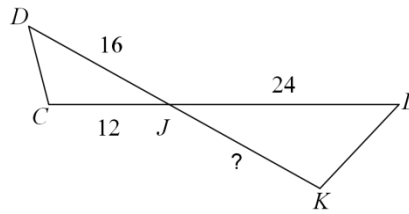


Find each missing length.

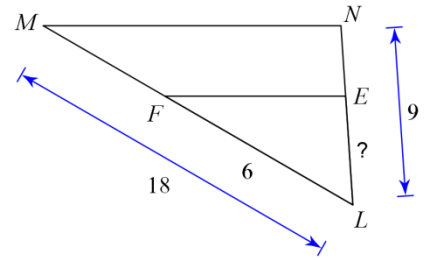
10. $\triangle RST \sim \triangle FED$



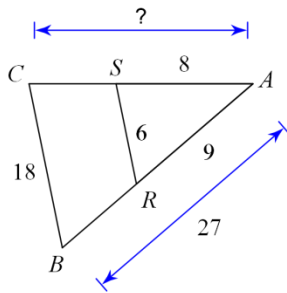
11. $\triangle JCD \sim \triangle JKL$



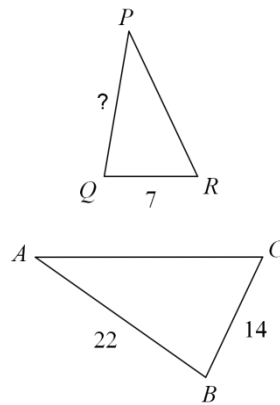
12. $\triangle LEF \sim \triangle LNM$



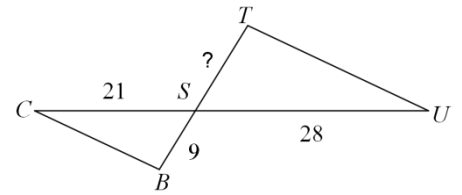
13. $\triangle RAS \sim \triangle BAC$



14. $\triangle PQR \sim \triangle ABC$



15. $\triangle SBC \sim \triangle STU$



Use the diagram at the right to complete each statement.

16. $\triangle CAB \sim$ _____

17. $\frac{AE}{AC} = \frac{?}{AB}$

18. $\frac{3}{9} = \frac{x}{?}$

19. $x =$ _____

20. The scale factor of $\triangle ABC$ to $\triangle ADE$ is _____

