Name _____

1)   2)   The quadrilaterals below are similar. Write
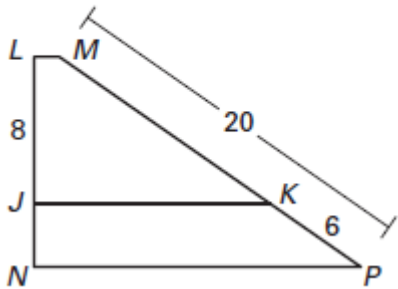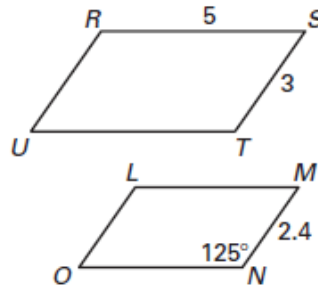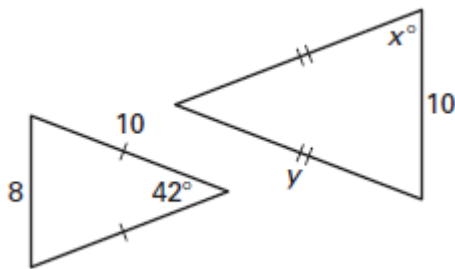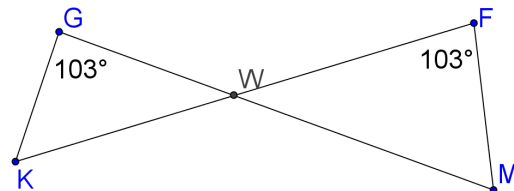   the similarity statement and scale factor.

Given: $\dfrac{LJ}{JN} = \dfrac{MK}{KP}$, find JN.

3)   The two polygons are similar. Solve for x and y.   4.   Complete the similarity statement for the
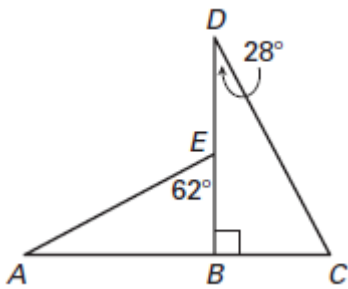   similar triangles below. Explain why the
                                                                      triangles are similar. $\Delta GWK \sim \Delta$_____
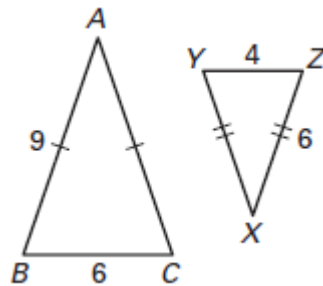

Is it possible to prove the triangles similar? Circle "yes" or "no" to answer. **Explain your reasoning.**
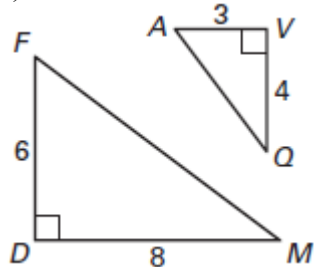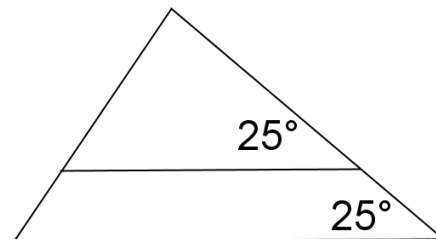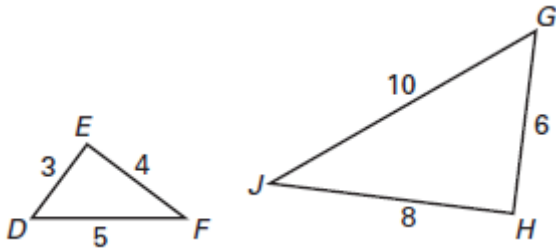5)   Yes or No   6)   Yes or No

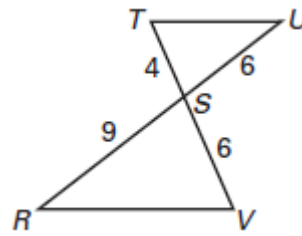7)   Yes or No   8)   Yes or No
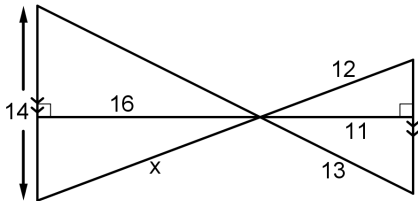
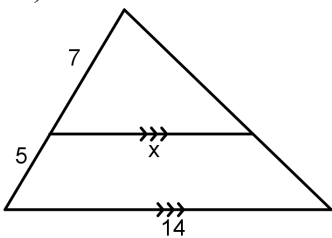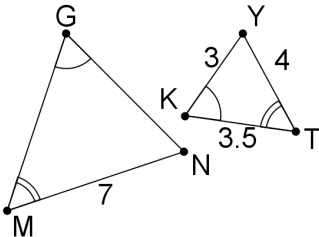9)   Yes or No

10)   Yes or No

11)   There are triangles below that are similar. Find the value of the variable.
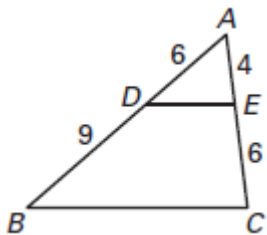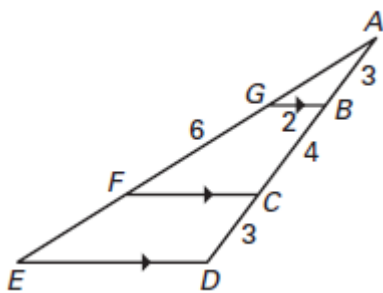

12)   Solve for x

13) $\Delta YTK \sim \Delta NMG$. Determine the length of $\overline{GN}$.

14)   Use the given information to determine whether $\overline{BC} \parallel \overline{DE}$. Justify your answer.
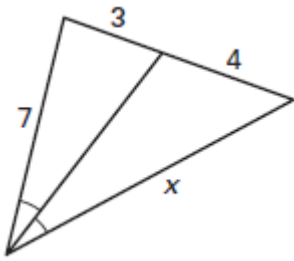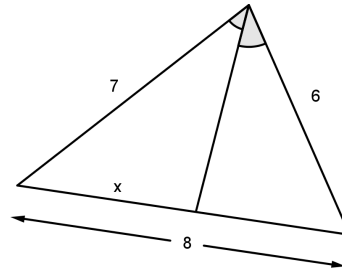

15)   Solve for AG and ED.
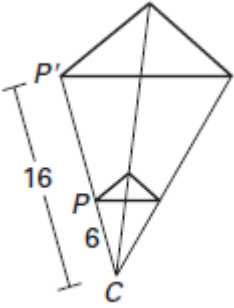
Solve for the variable.
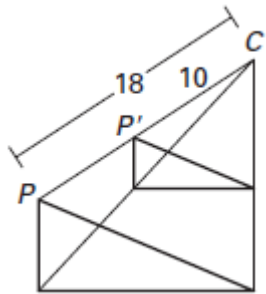
16)

17)

Each of the following is a dilation from figure P to figure P'. Give the scale factor of the dilation.
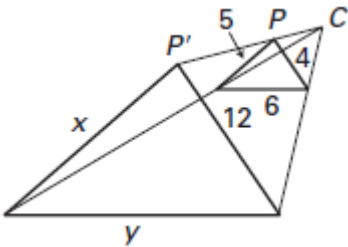
18)   scale factor: _____

19)   scale factor: _____

20)   The diagram is a dilation. Find x and y.

21)   Draw a dilation of the polygon with the given vertices using the scale factor k = 2.