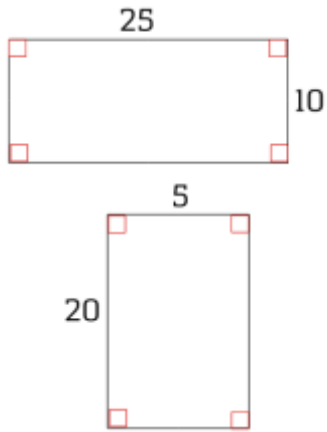


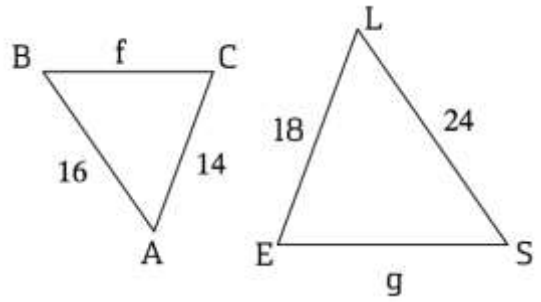
SRT-A2a

Practice Assessment Q3 #1

1. Are the figures below similar? Explain why or why not and give numerical justification.



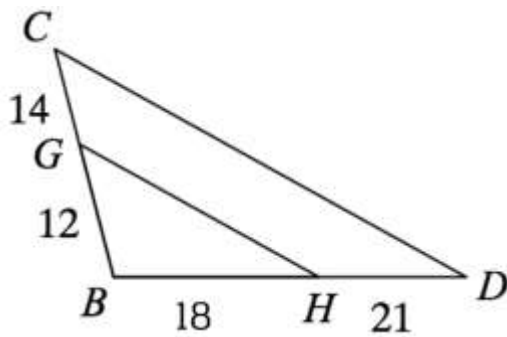
2. Given $\triangle ABC \sim \triangle SLE$. Find the values of f and g .



SRT-A3

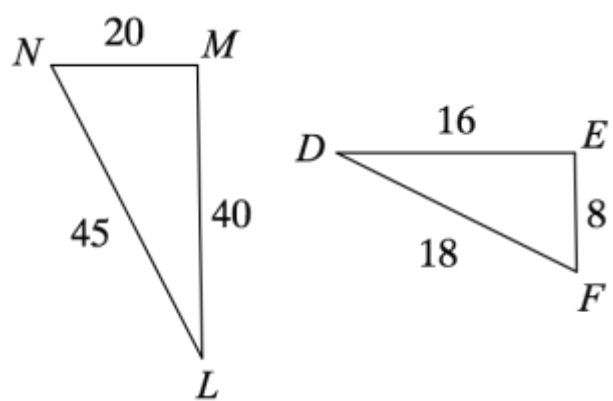
In each pair below, justify why the triangles are similar. Then, complete the similarity statement.

3.



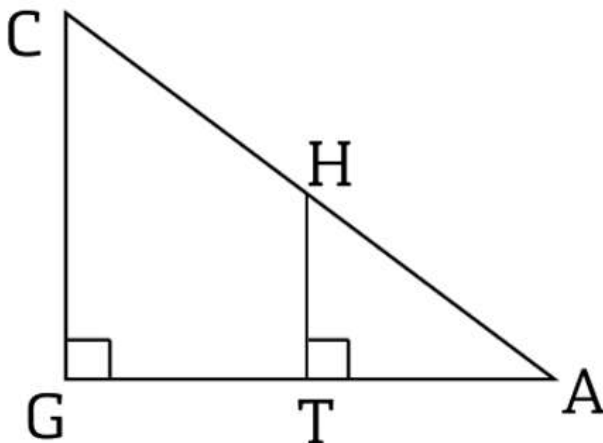
$\triangle GBC \sim \triangle$ ____

4.



$\triangle LMN \sim \triangle$ ____

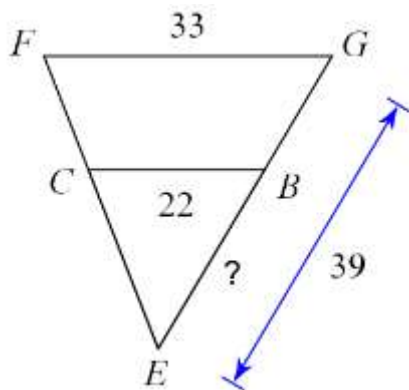
5.



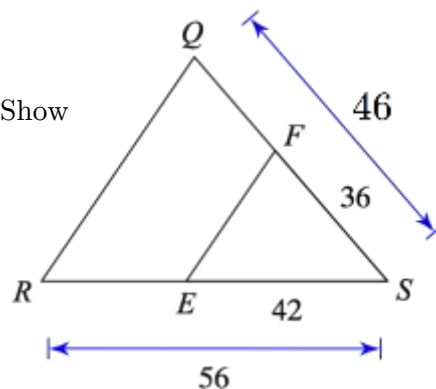
$\triangle HAT \sim \triangle$ ____

SRT-B4a

6. In the figure below, $\overline{FG} \parallel \overline{CB}$. Find the length of the indicated side.

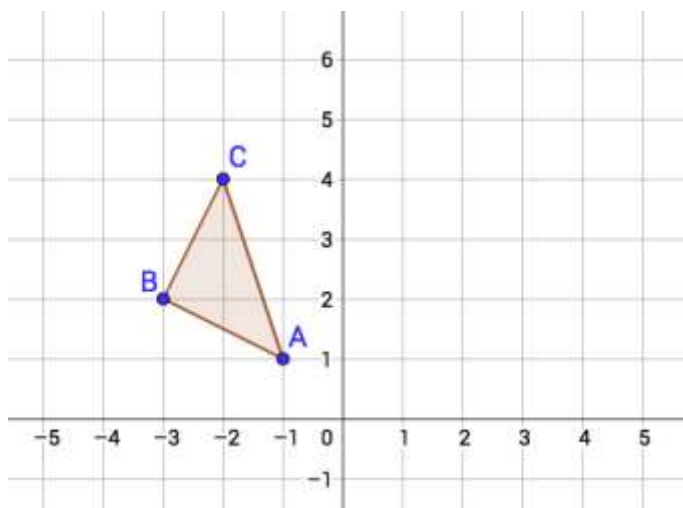


7. Refer to the figure at right. Is $\overline{FE} \parallel \overline{QR}$? Show the calculations that justify your answer.



SRT-A1a

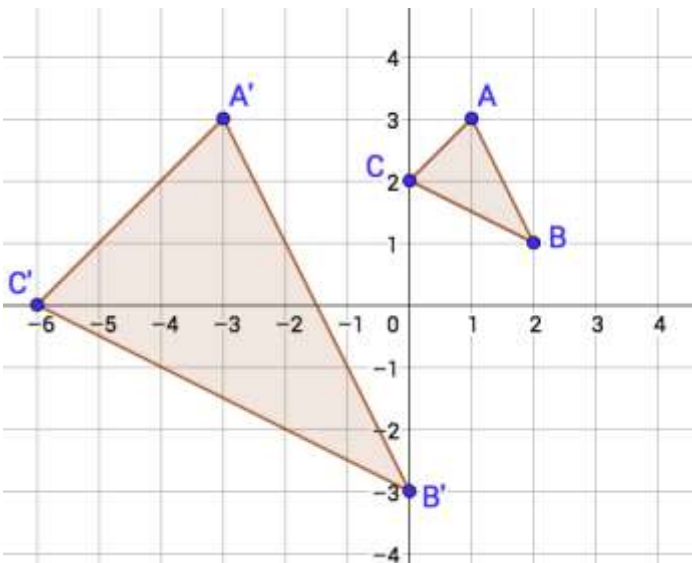
8. Suppose ΔABC is first translated by $(x, y) \rightarrow (x + 2, y - 1)$ and is then dilated about the origin with a scale factor of 2 to create $\Delta A'B'C'$. Draw and label $\Delta A'B'C'$.



9. ΔABC in the figure has an area of 2.5 units. What is the area of $\Delta A'B'C'$ after it has been translated and dilated as described in #8?

SRT-A1b

9. Determine both the center of dilation and the scale factor in the dilation below.



Center:

Scale factor:

10. Suppose ΔDEF (not shown) is dilated about a point lying outside the figure to create $\Delta D'E'F'$. Rate each as True/False.

$\Delta DEF \cong \Delta D'E'F'$

$\overline{DD'} \parallel \overline{EE'}$

$\overline{DE} \parallel \overline{D'E'}$