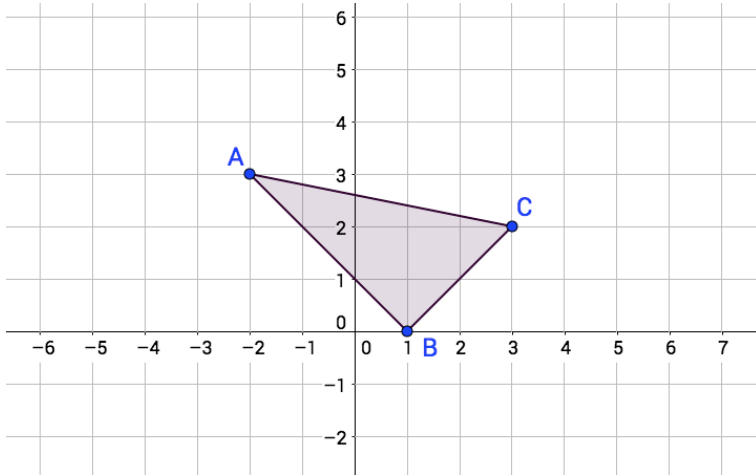
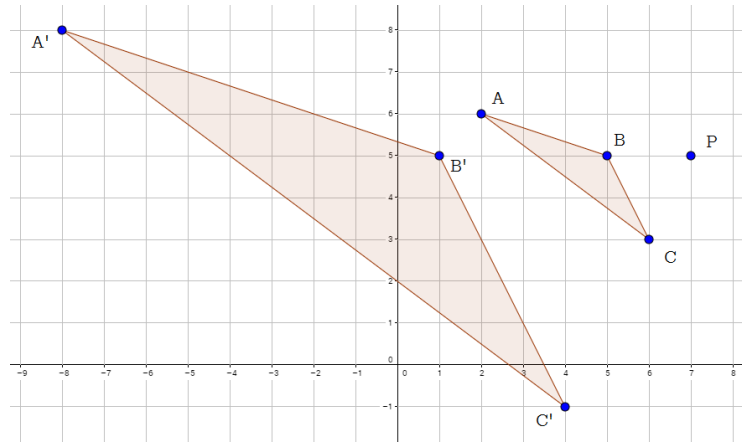


1. Dilate $\triangle ABC$ about the origin with scale factor 2 to create $\triangle A'B'C'$.



2. $\triangle A'B'C'$ is a dilation of $\triangle ABC$ with center of dilation P as shown. What is the scale factor of this dilation?

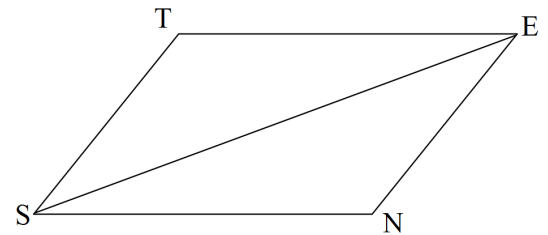


CO-C9P

3. Write a paragraph *or* two-column proof for the proposition.

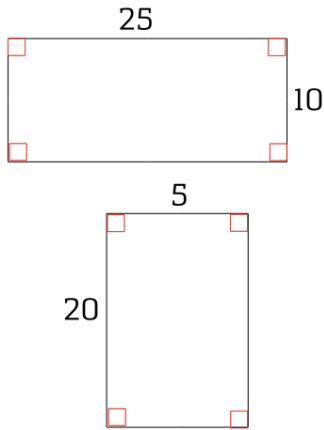
GIVEN: $\overline{TE} \parallel \overline{NS}$, $\overline{TE} \cong \overline{NS}$

PROVE: $\overline{TS} \cong \overline{NE}$

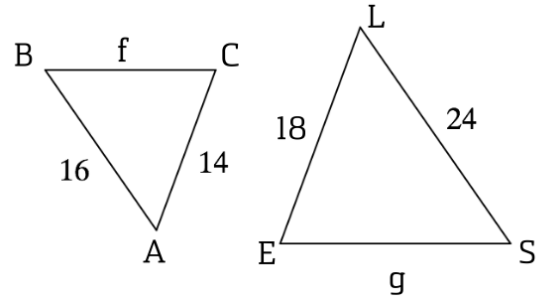


SRT-A3

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

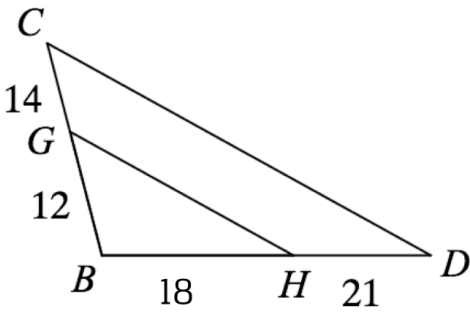


5. Given $\triangle ABC \sim \triangle SLE$. Find the values of f and g .



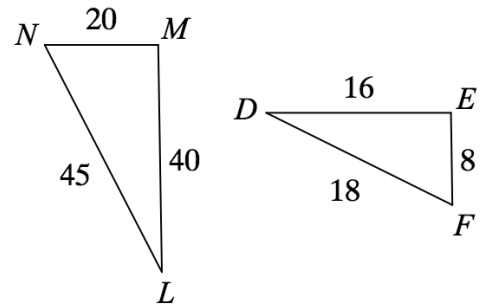
In each pair below, explain why the triangles are similar. Then, complete the similarity statement.

6.



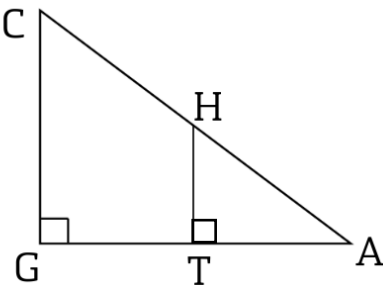
$\triangle CDB \sim \triangle$ ____

7.



$\triangle LMN \sim$ _____

8.



$\triangle HAT \sim \triangle$ ____