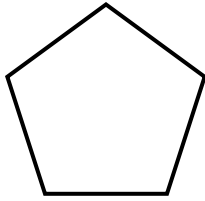
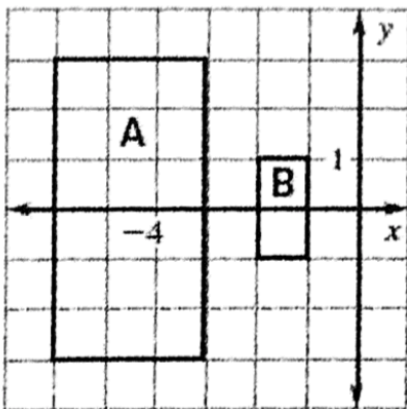


Dilate with a scale factor of $\frac{1}{3}$ and then a scale factor of 2.

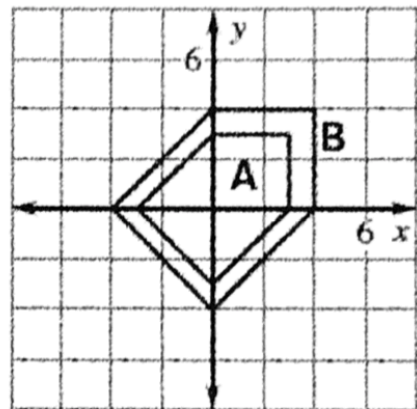
•



Determine whether the dilation from figure A to figure B is a reduction or enlargement. Find its scale factor.



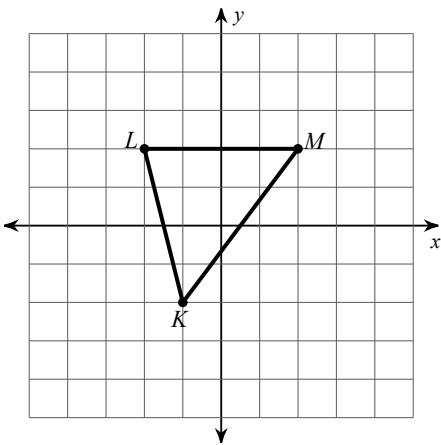
_____ k = _____



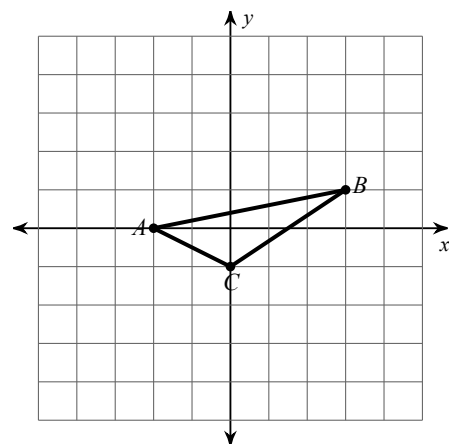
_____ k = _____

Graph the image of the figure using the transformation given.

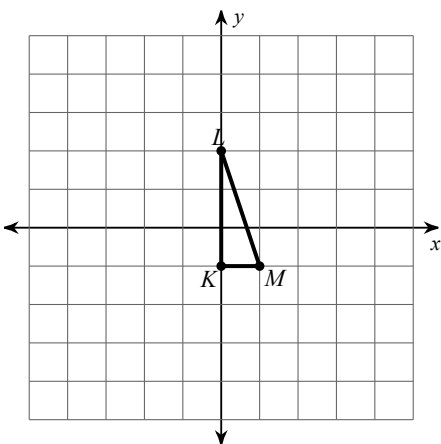
1) dilation of 2 about the origin



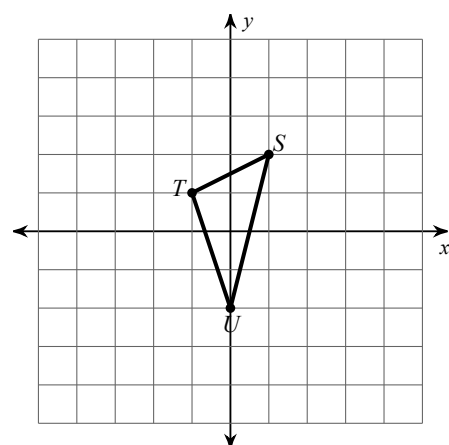
2) dilation of $\frac{3}{2}$ about the origin



3) dilation of 1.5 about the origin



4) dilation of $\frac{1}{2}$ about the origin



Solve each proportion.

5) $\frac{3}{x} = \frac{8}{5}$

6) $\frac{8}{10} = \frac{x}{3}$

7) $\frac{b}{9} = \frac{6}{2}$

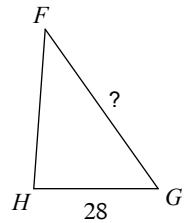
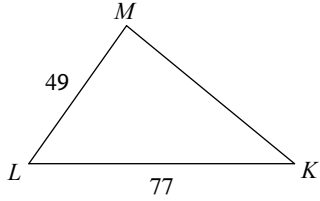
8) $\frac{n}{4} = \frac{6}{9}$

9) $\frac{x}{5} = \frac{3}{4}$

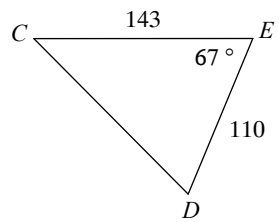
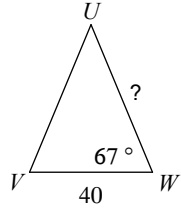
10) $\frac{x}{4} = \frac{7}{3}$

Find the missing length. The triangles in each pair are similar.

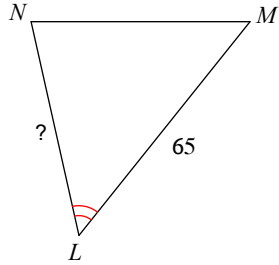
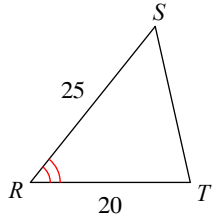
11) $\triangle KLM \sim \triangle FGH$



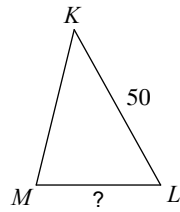
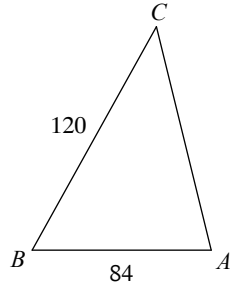
12) $\triangle EDC \sim \triangle WVU$



13) $\triangle LMN \sim \triangle RST$

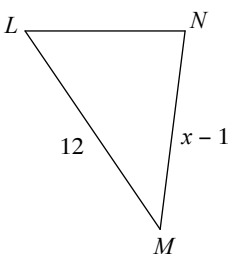
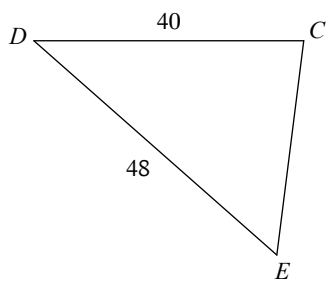


14) $\triangle CBA \sim \triangle KLM$

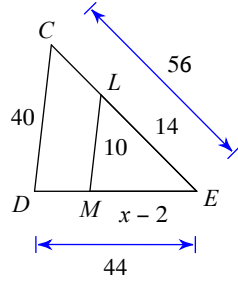


Solve for x . The triangles in each pair are similar.

15) $\triangle CDE \sim \triangle NML$

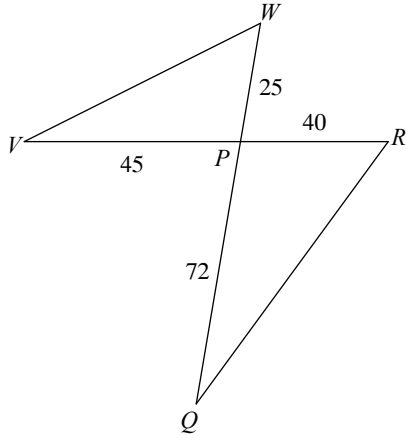


16)



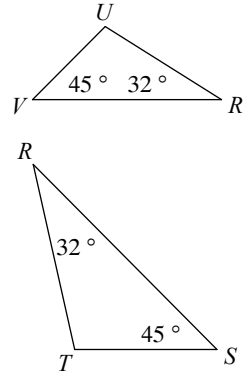
State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.

17)



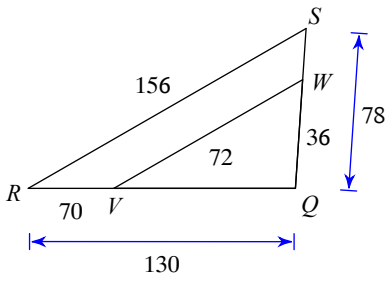
$\triangle PQR \sim$ _____

18)



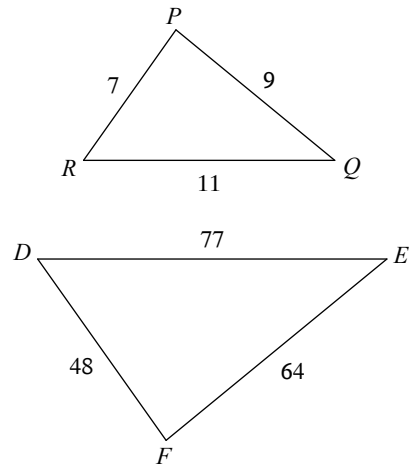
$\triangle RST \sim$ _____

19)



$\triangle RQS \sim$ _____

20)



$\triangle FED \sim$ _____