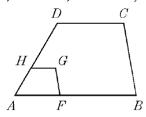
4.REV.1 ~ Lessons 4.1 - 4.3

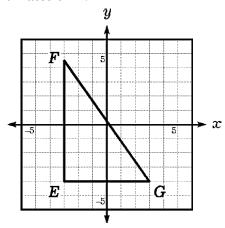
1. Given: ABCD ~ AFGH

If AF = 18, AB = 54, & HG = 9, what is DC?



3. Given: $\triangle LMN \sim \triangle EFG$

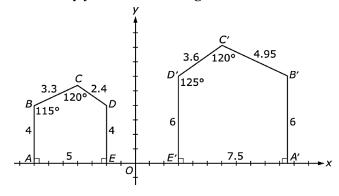
If the coordinates of L are (4,3) and the coordinates of M are (4, 7.25), what are the coordinates of N?



5. The measures of four of the five angles in each 6. Given: $\triangle KLM \sim \triangle K'L'M'$ pentagon in the coordinate plane are given. The sum of the measures of the interior angles of a pentagon is 540°.

Are the two pentagons similar? If so, write a valid similarity statement.

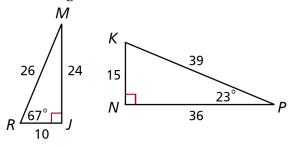
Justify your answer using transformations.



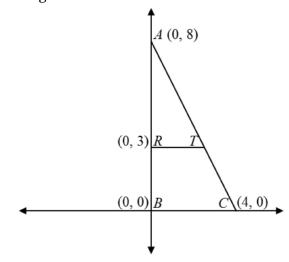
Name: _

Past due on: _____ Period: ____

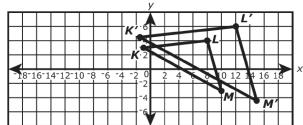
2. Is $\triangle JMR \sim \triangle NPK$? If so, what is the similarity ratio? If not, explain your reasoning.



4. Given: $\triangle ABC \sim \triangle ART$ What is the scale factor if $\triangle ABC$ is the preimage?



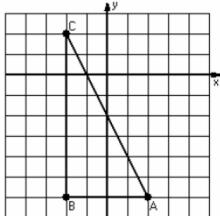
Describe the similarity transformation that maps $\triangle KLM$ onto $\triangle K'L'M'$.



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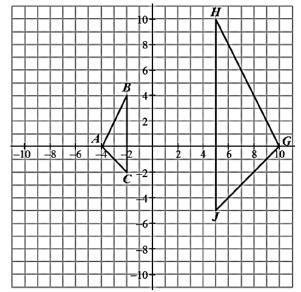
7. Draw and label the dilated image.

Center: $(-2, -2) \& k = \frac{1}{4}$



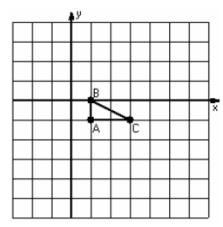
9. Given: $\triangle ABC \sim \triangle GHJ$

Describe the similarity transformation that maps $\triangle ABC$ onto $\triangle GHJ$.



8. Draw and label the dilated image.

Center: (2, 1) & k = 3

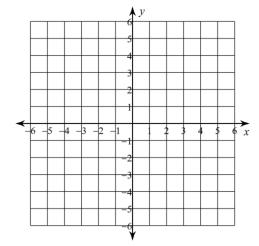


10. Given: $\triangle ABC \sim \triangle DEF$

 $\triangle ABC$ has vertices A(1, -2), B(1, 0.5), and C(2, 1) and $\triangle DEF$ has vertices D(4, -3),

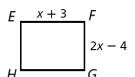
E(4,2), and F(6,3).

Graph the triangles and describe the similarity transformation that maps $\triangle ABC$ onto $\triangle GHJ$.



11. Given: $ABCD \sim EFGH$ Find x.

 $\begin{array}{ccccc}
A & 4 & B \\
B & 3 & C
\end{array}$



12. Given: $\triangle MNP \sim \triangle XYZ$

Find *x*.

