

Goal: I will be able to _____

Tool Bag

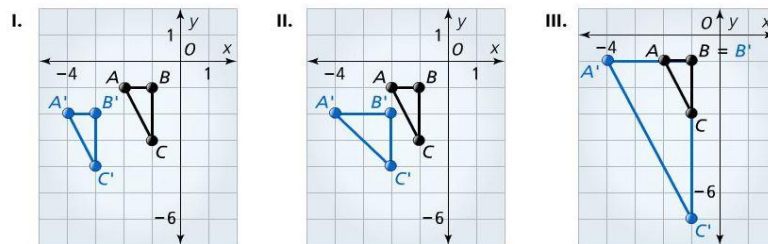
Formulas,
equations,
vocabulary, etc.

Dilation

Scale Factor

Example 1

Which graph shows a dilation?



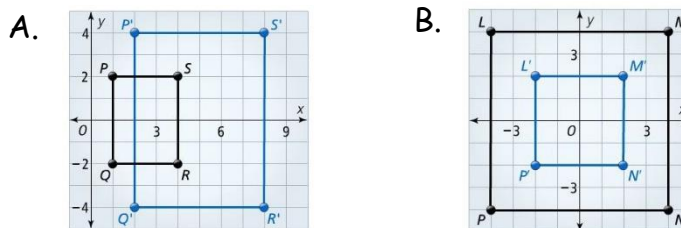
Type of Dilations

Enlargements

Reductions

Example 2

What type of dilation?



What is the scale factor?

Finding the coordinates after a dilation

Example 3

The vertices of $\triangle ABC$ are $A(1,2)$, $B(-2,1)$, and $C(-1,-1)$. Use arrow notation to find the coordinates of A' , B' , and C' after a dilation with center $(0,0)$ and a scale factor of 3.

Example 4

The vertices of $\triangle MNO$ are $M(8,4)$, $N(4,-4)$, and $O(0,0)$. $\triangle M'N'O'$ is the image of $\triangle MNO$ after a dilation with center $(0,0)$ and scale factor of $\frac{3}{4}$. What are the coordinates of point M' ?

