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Name: _____

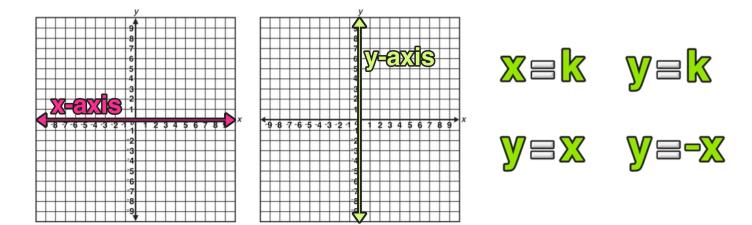
Lesson Guide

This lesson guide accompanies the following video lesson:

Geometry Transformations: Reflections

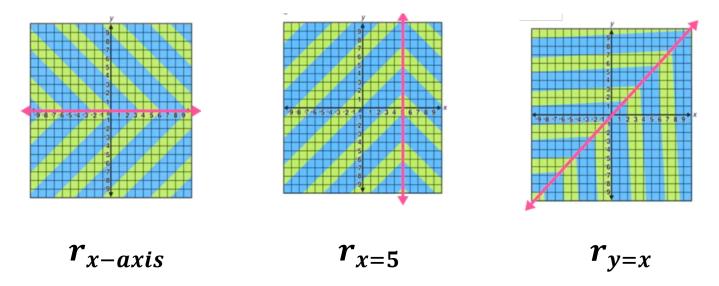
In geometry, a reflection is a _____.

A reflection is NOT a change in ______ or _____.



Notation:

When reflecting a point, line, or figure about a given **line of symmetry**, we use the notation: \boldsymbol{r}_{a} where **a** equals the line of symmetry. For example:





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Common Lines of Reflection

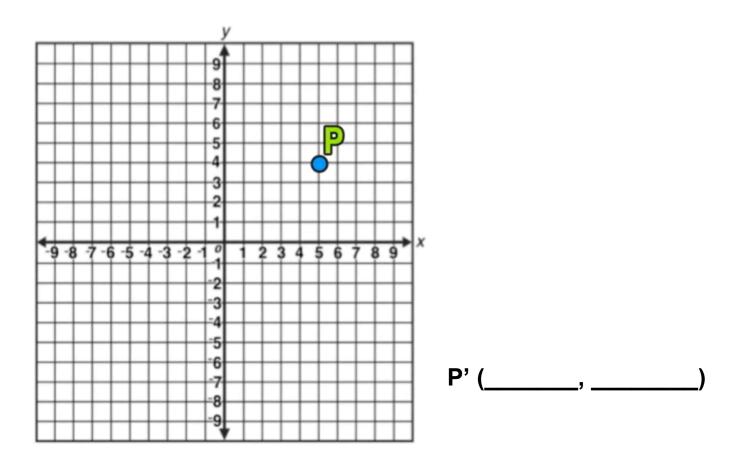
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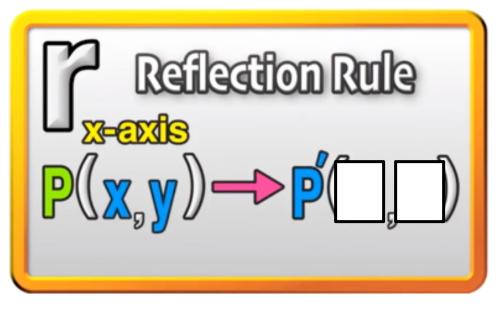
Reflection Over the X-Axis

Example 01:

Construct the image of P' after the following : r_{x-axis}

For this example, the line of symmetry is _____.



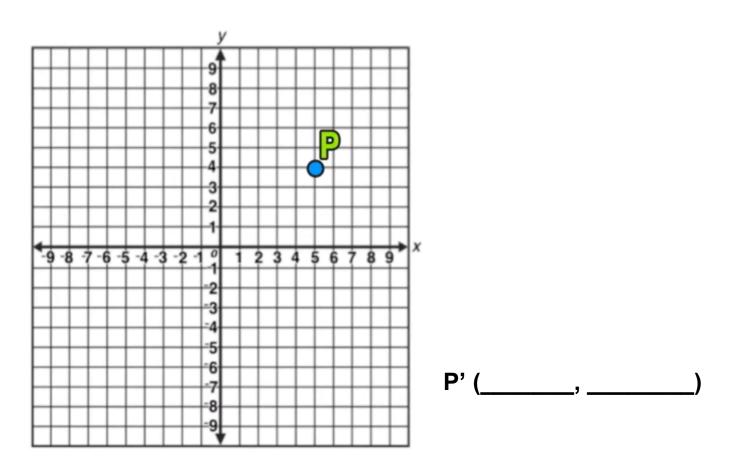


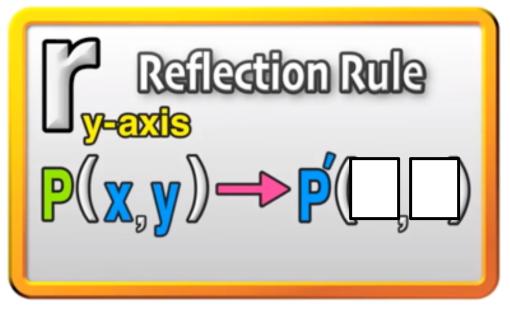
Reflection Over the Y-Axis

Example 01:

Construct the image of P' after the following : r_{y-axis}

For this example, the line of symmetry is _____.



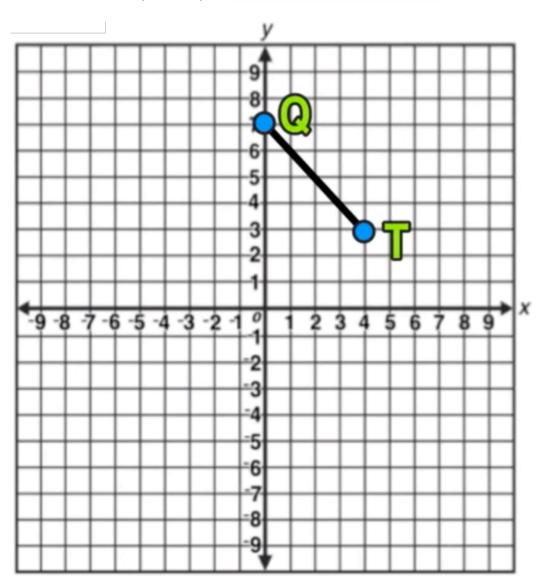


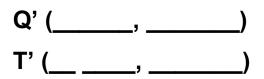
Reflection Over the x=k

Example 01:

Construct the following transformation on \overline{qT} : $r_{\chi=-2}$

For this example, the line of symmetry is _____.



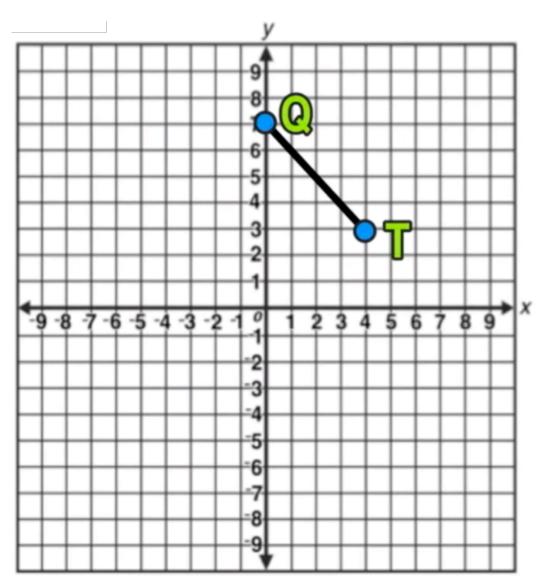


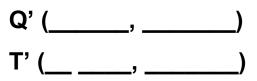
Reflection Over the y=k

Example 01:

Construct the following transformation on \overline{QT} : $r_{y=3}$

For this example, the line of symmetry is ______.

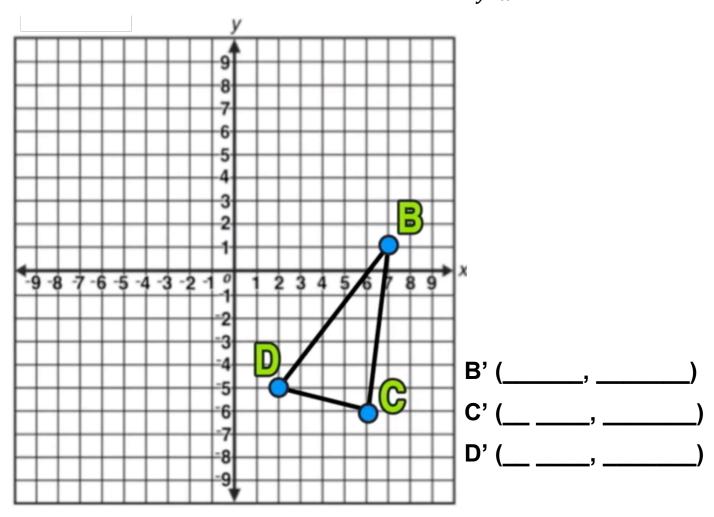


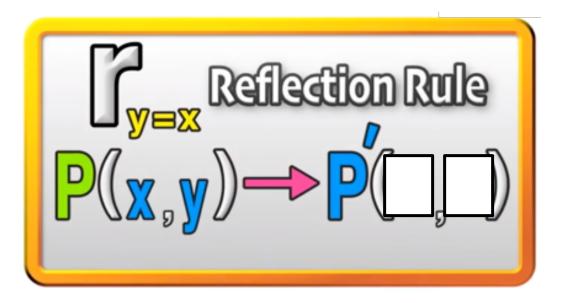


Reflection Over the y=x

Example 01:

Construct the image of $\Delta B'C'D'$ after the following: $r_{y=x}$





Reflection Over the y=-x

Example 01:

Construct the image of $\Delta B'C'D'$ after the following: $r_{y=-x}$

