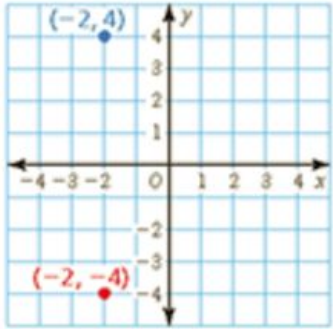


Essential Question: How do I reflect points in a coordinate plane?

Questions /Main Ideas	Class Notes
What is a reflection?	A reflection is a mirror image. You can reflect points in the x-axis, the y-axis, or both. One coordinate in the ordered pairs will be the same, while the other will be opposite.
How do I reflect points in a coordinate plane?	<ul style="list-style-type: none"> • To reflect a point in the x-axis, use the same x-coordinate and take the opposite of the y-coordinate. • To reflect a point in the y-axis, use the same y-coordinate and take the opposite of the x-coordinate.
Reflect $(-2,4)$ in the x-axis.	<p>Use same x-coordinate (-2) Use the opposite of the y-coordinate (-4).</p> 
Reflect $(2, 1)$ in the x-axis FOLLOWED by the y-axis	<p>Make TWO reflections. First, reflect in the x-axis.</p> <p>$(2, 1)$ becomes $(2, -1)$</p> <p>Then, reflect in the y-axis, starting at the point you left off at.</p> <p>$(2, -1)$ becomes $(-2, -1)$.</p>

Summary

To make a reflection, you are going to create a mirror image in a different quadrant. The axis of reflection will tell you which coordinate to keep the same. Use the opposite for the other coordinate. Sometimes, you must make two reflections in one problem.