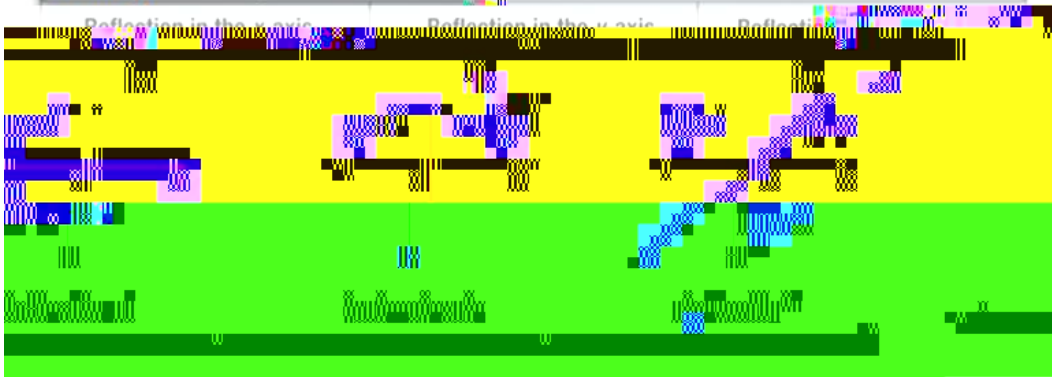


Concept Summary Reflection in the Coordinate Plane



Key Concept Rotations in the Coordinate Plane

Rotation	Example	90° P
<p>Rotate a point 90° counterclockwise about the origin, multiply the y-coordinate by -1 and then change the x- and y-coordinates.</p> <p>Rule: $(x, y) \rightarrow (-y, x)$</p>	<p>Example: Point $P(5, 2)$ is rotated 90° counterclockwise about the origin to point $P'(-2, 5)$.</p>	<p>To rotate a point 90° counterclockwise about the origin, multiply the y-coordinate by -1 and then change the x- and y-coordinates.</p> <p>Symbol: $(x, y) \rightarrow (-y, x)$</p>
<p>Rotate a point 180° counterclockwise about the origin, multiply the x- and y-coordinates by -1.</p> <p>Rule: $(x, y) \rightarrow (-x, -y)$</p>	<p>Example: Point $P(5, 2)$ is rotated 180° counterclockwise about the origin to point $P'(-5, -2)$.</p>	<p>To rotate a point 180° counterclockwise about the origin, multiply the x- and y-coordinates by -1.</p> <p>Symbol: $(x, y) \rightarrow (-x, -y)$</p>