**Rigid Transformation Rules**

Reflection

Across the x-axis

* X-coordinate stays the same
* Y-coordinate in the image is opposite of y-coordinate in the original

Across the y-axis

* Y-coordinate stays the same
* X-coordinate in the image is opposite of x-coordinate in the original

Rotation

90o Clockwise around the origin

* Y-coordinate in the original is the same as the x-coordinate in the image
* X-coordinate in the original is the opposite of the y-coordinate in the image

180o Clockwise around the origin

* X-coordinate in the original is the opposite of the x-coordinate in the image
* Y-coordinate in the original is the opposite of the y-coordinate in the image

270o Clockwise around the origin

* X-coordinate in the original is the same as the y-coordinate in the image
* Y-coordinate in the original is the opposite of the x-coordinate in the image

90o Counterclockwise around the origin

* X-coordinate in the original is the same as the y-coordinate in the image
* Y-coordinate in the original is the opposite of the x-coordinate in the image

180o Counterclockwise around the origin

* X-coordinate in the original is the opposite of the x-coordinate in the image
* Y-coordinate in the original is the opposite of the y-coordinate in the image

270o Counterclockwise around the origin

* Y-coordinate in the original is the same as the x-coordinate in the image
* X-coordinate in the original is the opposite of the y-coordinate in the image