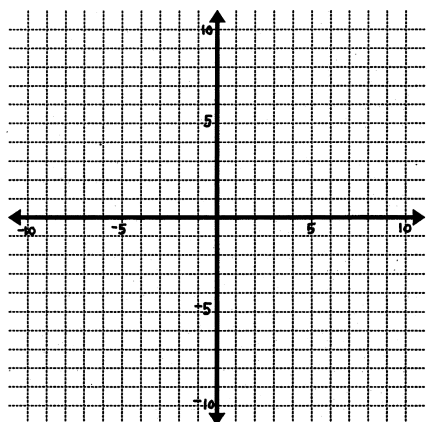


2.4 – Exploring Rotations

1) Label the seven parts of the coordinate plane:

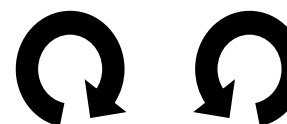


2) Circle the correct direction for the following:

a) Clockwise



b) Counter-clockwise



3) Label the parts of an ordered pair (coordinate):

(3,5)

4) Plot the following ordered pairs (coordinates) on the coordinate plane. Make sure you label the points.
After plotting, indicate the location of the point (ie: which quadrant or axis it lies on)

A(2, -5) _____

B(-5, -6) _____

C(-8, 2) _____

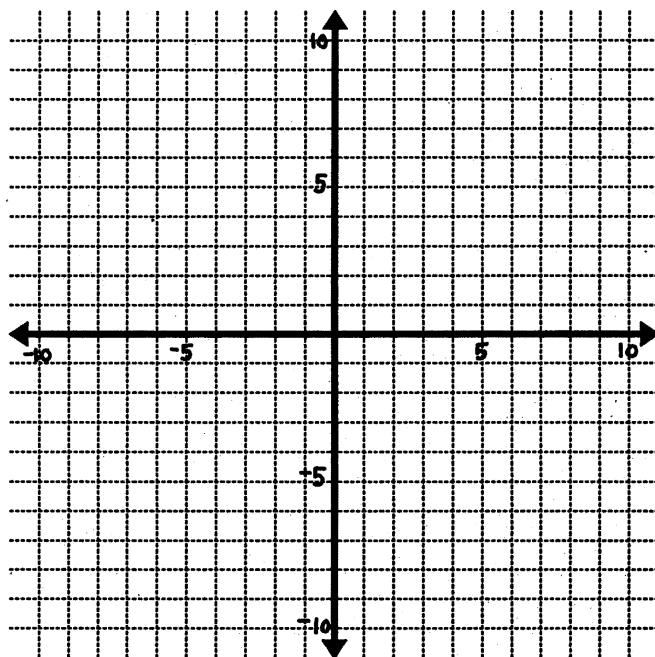
D(0,4) _____

E(-7,0) _____

F(6,8) _____

G(9, -3) _____

H(0,0) _____



In this assignment, you need to use the sketch located in Edmodo or in your email named: “*RotationsD2*”.
Remember to stay on task on this assignment.

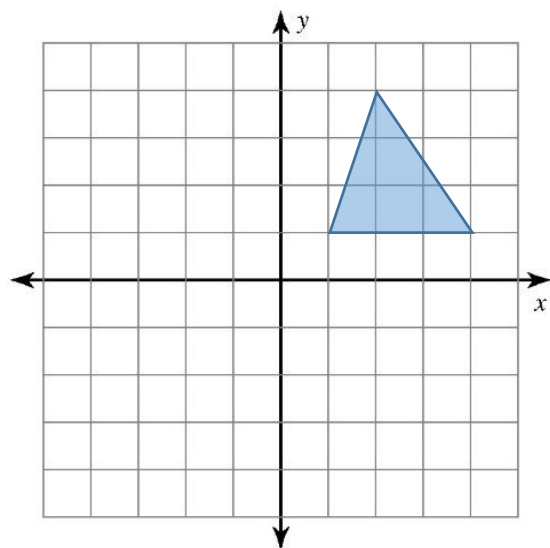
Make sure you pay very close attention to the directions and questions.

Your goal is to make very good observations. Many of your comments and answers will look like the following:

- “Switch x -coordinate and y -coordinate.”
- “Change the second number to the opposite.”
- “Change the first and second numbers to the opposite”

Investigation 1 - Rotating 90° Counter-clockwise (Rotating 270° Clockwise).

- Label the coordinates of the original figure.
- Rotate the figure about the origin (trace, rotate, re-draw on paper, and label) using the given tools.



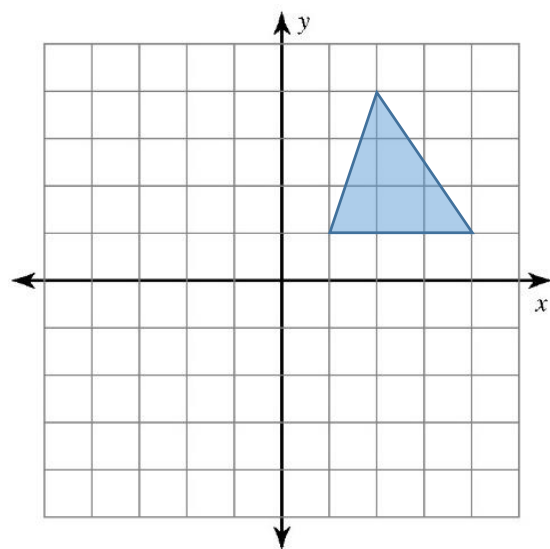
From your observation, what do you notice is the relationship between the original figure and the image? (For help refer to the above comments and answers)

- Switch the ____ coordinate and the ____ coordinate.
- Change the first number to the _____.

Rule for Rotating 90° counter-clockwise (Rotating 270° clockwise).

Investigation 2 - Rotating 180° Degrees.

- Label the coordinates of the original figure.
- Rotate the figure about the origin (trace, rotate, re-draw on paper, and label) using the given tools.



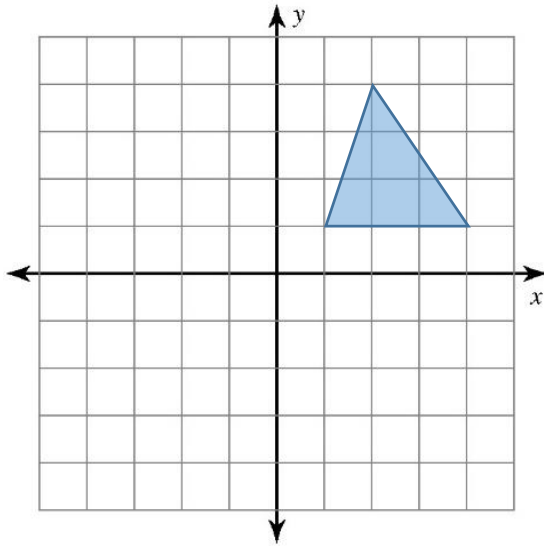
From your observation, what do you notice is the relationship between the original figure and the image? (For help refer to the above comments and answers)

- Change the first and second number to the _____.

Rule for Rotating 180°

Investigation 3 - Rotating 270° Counter-clockwise (Rotating 90° Clockwise).

- Label the coordinates of the original figure.
- Rotate the figure about the origin (trace, rotate, re-draw on paper, and label) using the given tools.



From your observation, what do you notice is the relationship between the original figure and the image? (For help refer to the above comments and answers)

- Switch the ____ coordinate and the ____ coordinate.
- Change the second number to the _____.

Rule for Rotating 270° counter-clockwise (Rotating 90° clockwise).