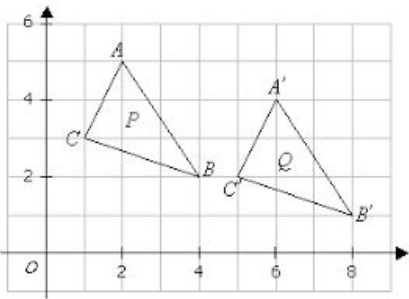


Name: _____

Homework – Monday (October 22, 2018)

Solve the following problems **without a calculator**. You MUST show your work. **NO WORK = NO CREDIT.**

1. Describe the translation in the graph.



2. If point A(-15,3) translates right 2 and up 5, what are the new coordinates of A'?

3. If the point (-2,1) is translated one unit right and 4 units down, what are the new coordinates of the point?

4. A triangle with the vertices A(-6,4), B(2,1), and C(-3,-2) is translated 3 units left and 4 units up. What are the coordinates of the new triangle?

A' (_____ , _____)

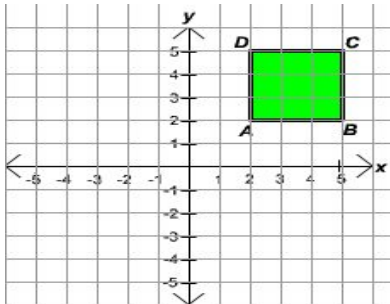
B' (_____ , _____)

C' (_____ , _____)

Homework- Tuesday (October 23, 2018)

Solve the following problems **without a calculator**. You MUST show your work. **NO WORK = NO CREDIT.**

1. Reflect the figure around the x-axis. Draw the figure and label A'B'C'D'.



2. If the point (5,-23) is reflected around the y-axis, what is the coordinate of the new point?

3. If point H(-5,-4) is reflected around the x-axis, what is H'?

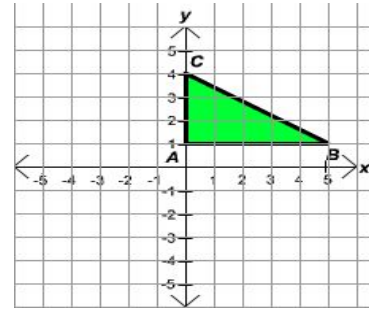
4. Triangle ABC is drawn in Quadrant III. If its image is reflected on the y-axis, in which Quadrant will the reflected image lie?

Homework - Wednesday (October 24, 2018)

Solve the following problems **without a calculator**. You **MUST** show your work. **NO WORK = NO CREDIT.**

1. Figure ABCD is drawn in Quadrant II. If its image is rotated 270° counterclockwise, in which Quadrant will the reflected image lie?

2. Rotate the figure 90° counterclockwise. Draw the figure and label A'B'C'.



3. The point $(3,-2)$ is rotated counterclockwise about the origin. What are its new coordinates at each rotation

$$90^\circ = (\underline{\quad}, \underline{\quad})$$

$$180^\circ = (\underline{\quad}, \underline{\quad})$$

$$270^\circ = (\underline{\quad}, \underline{\quad})$$

$$360^\circ = (\underline{\quad}, \underline{\quad})$$

4. A triangle has vertices at point A with coordinates $(3,7)$, B at $(8,5)$, and C at $(9,-3)$. After the triangle is rotated 180° about the origin, what are the coordinates of its vertices.

$$A' (\underline{\quad}, \underline{\quad})$$

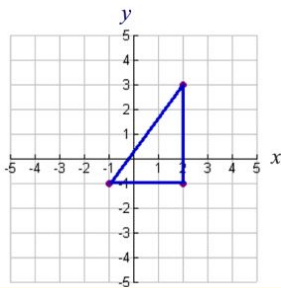
$$B' (\underline{\quad}, \underline{\quad})$$

$$C' (\underline{\quad}, \underline{\quad})$$

Homework - Thursday (October 25, 2018)

Solve the following problems **without a calculator**. You **MUST** show your work. **NO WORK = NO CREDIT.**

1. Translate the figure 3 left and 2 up. What are the new coordinates?



2. If point A $(-10,-3)$ translates left 1 and down 4, what are the new coordinates of A'?

3. The point $(7,5)$ is rotated counterclockwise about the origin. What are its new coordinates at each rotation

$$90^\circ = (\underline{\quad}, \underline{\quad})$$

$$180^\circ = (\underline{\quad}, \underline{\quad})$$

$$270^\circ = (\underline{\quad}, \underline{\quad})$$

$$360^\circ = (\underline{\quad}, \underline{\quad})$$

4. If point G $(-3,8)$ is reflected around the y-axis, what is G'?

