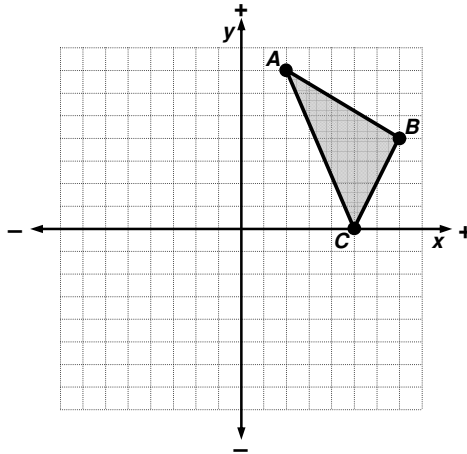


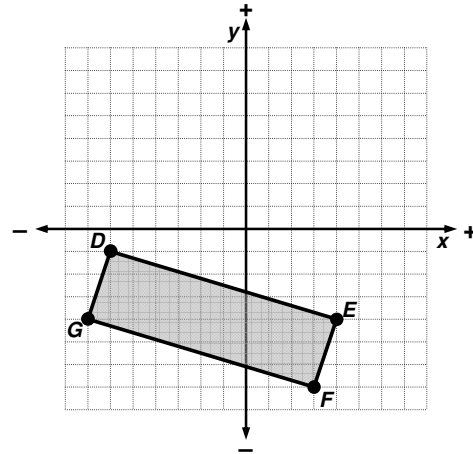
Rotation Levels: Classwork**Level 2**

1. Draw the following 180° counterclockwise rotations. Be sure to label the points on your image!

- a. Rotate the triangle 180° counterclockwise about the origin.



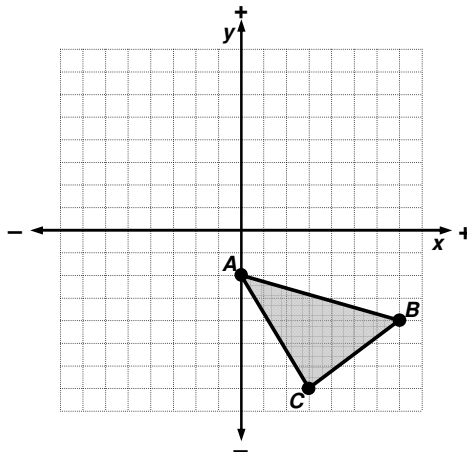
- b. Rotate the parallelogram 180° counterclockwise about the origin.



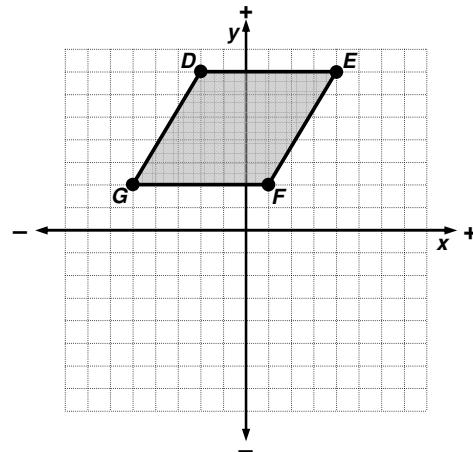
- c. Find the coordinate rule for 180° counterclockwise rotations.

2. Draw the following 90° clockwise rotations. Be sure to label the points on your image!

- a. Rotate the triangle 90° clockwise about the origin.



- b. Rotate the parallelogram 90° clockwise about the origin.

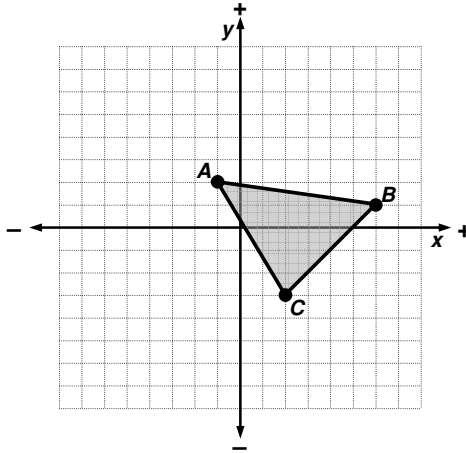


- c. Find the coordinate rule for 90° clockwise rotations.

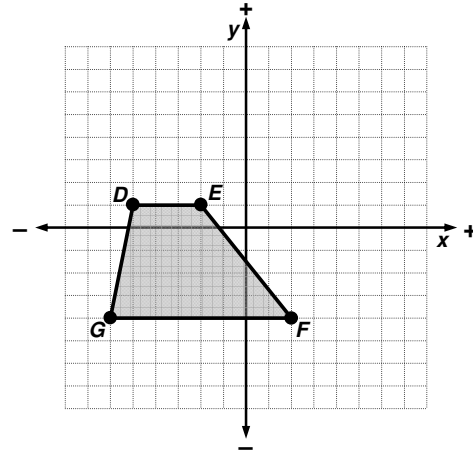
3. Explain why we do not need a separate coordinate rule for 270° rotations.

4. Draw the following rotations. Be sure to label the points on your image!

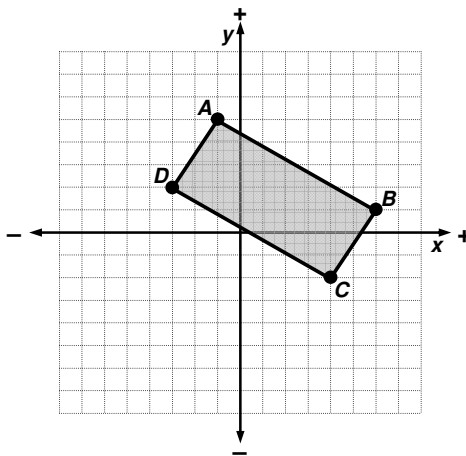
a. Rotate the triangle 90° clockwise about the origin.



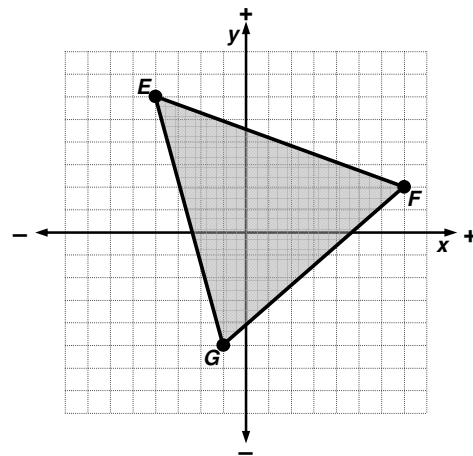
b. Rotate the trapezoid 90° clockwise about the origin.



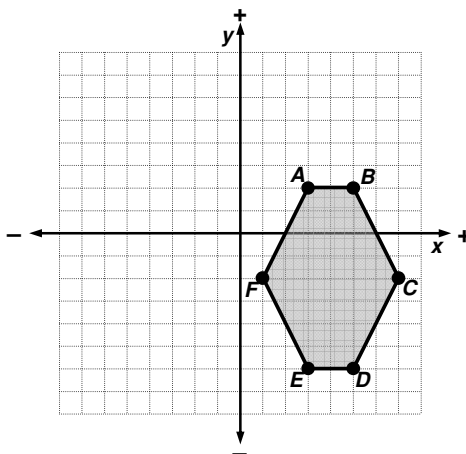
c. Rotate the parallelogram 180° clockwise about the origin.



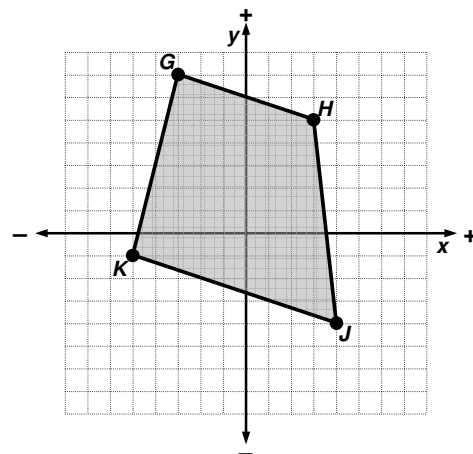
d. Rotate the triangle 180° counterclockwise about the origin.



e. Rotate the hexagon 270° counterclockwise about the origin.



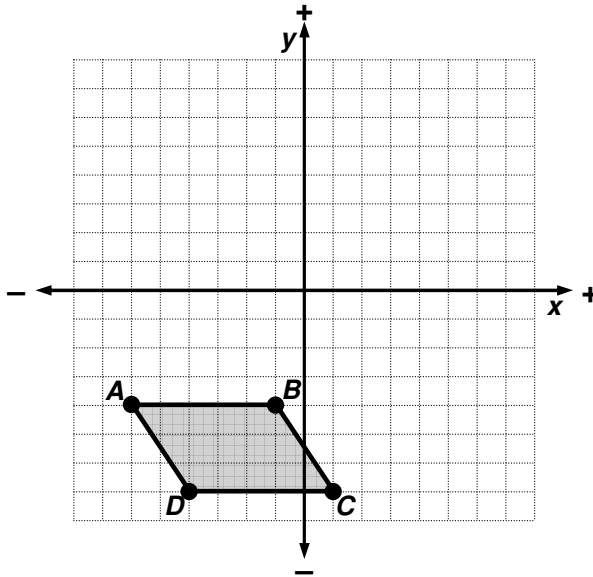
f. Rotate the trapezoid 270° clockwise about the origin.



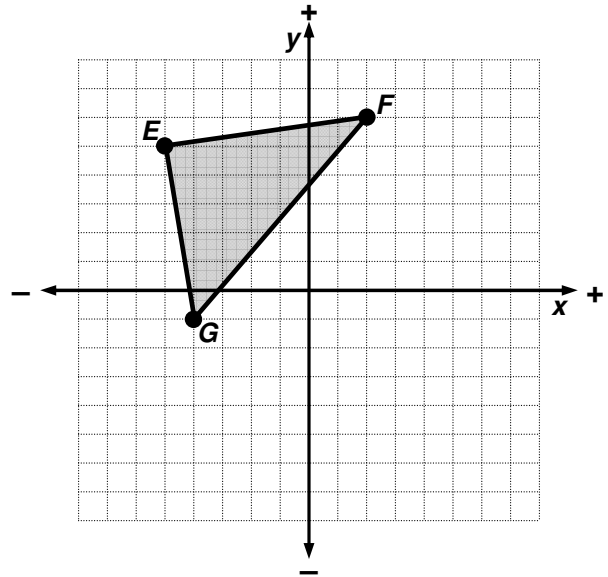
Rotation Levels: Homework

5. Draw the following rotations. Be sure to label the points on your image!

a. Rotate the parallelogram 90° counterclockwise about the origin.

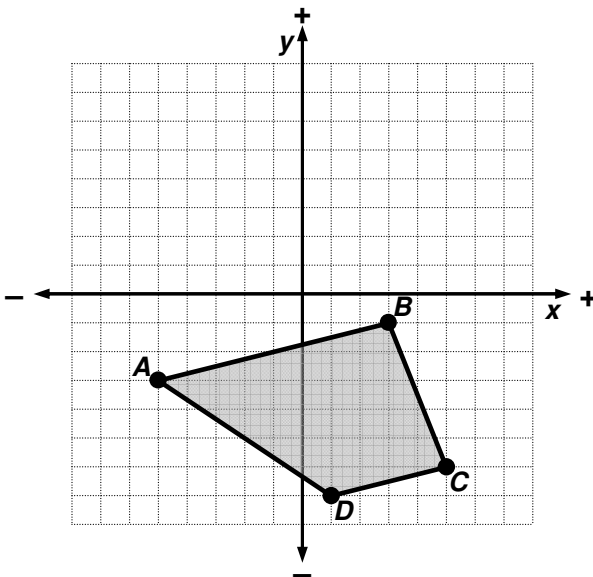


b. Rotate the triangle 90° counterclockwise about the origin.

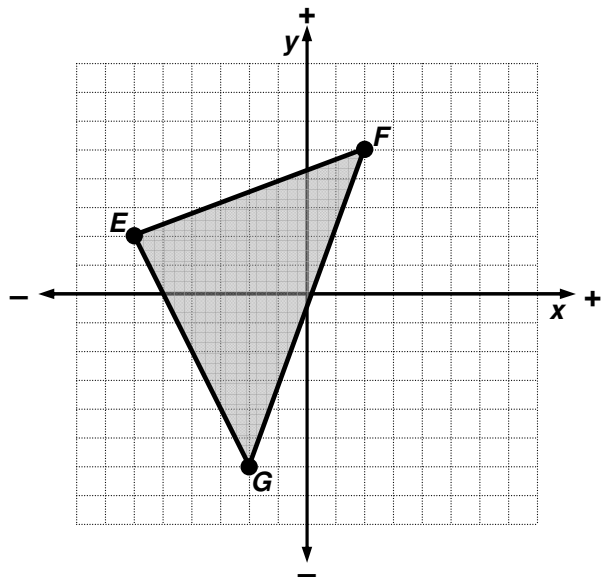


6. Draw the following reflections. Be sure to label the points on your image!

a. Reflect the trapezoid across the x-axis.



b. Reflect the triangle across the y-axis.



7. For each shape and its image, tell whether the transformation was a reflection, rotation, or neither.

