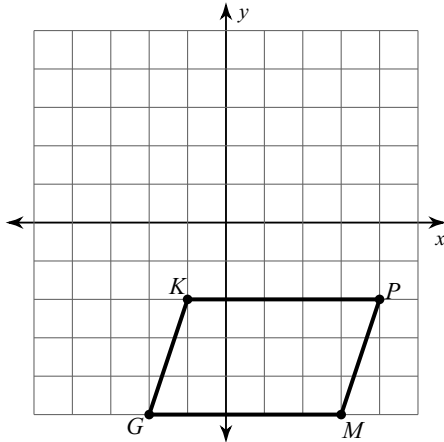


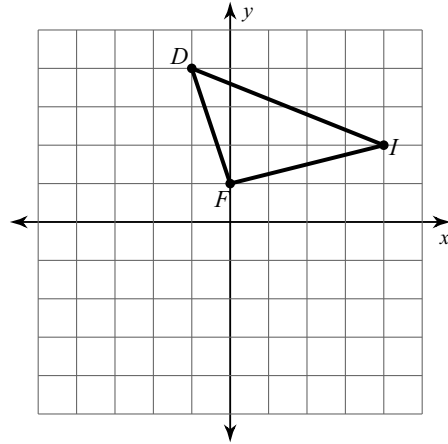
Rotation Practice

Graph the image of the figure using the transformation given.

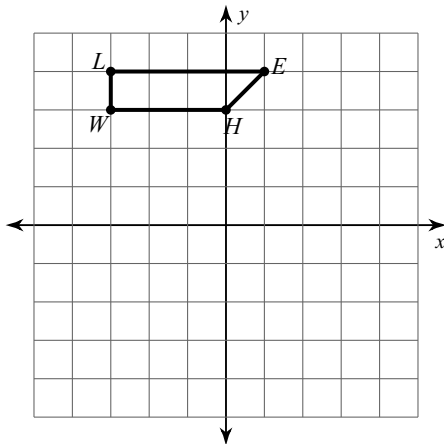
- 1) rotation 90° counterclockwise about the origin



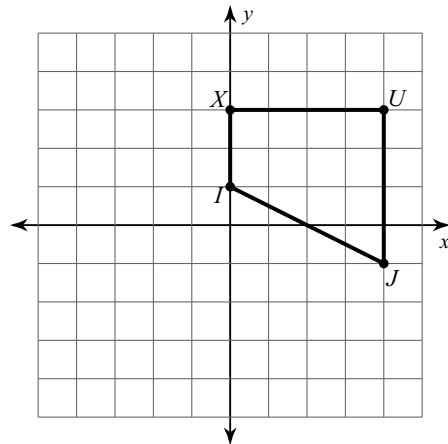
- 2) rotation 180° about the origin



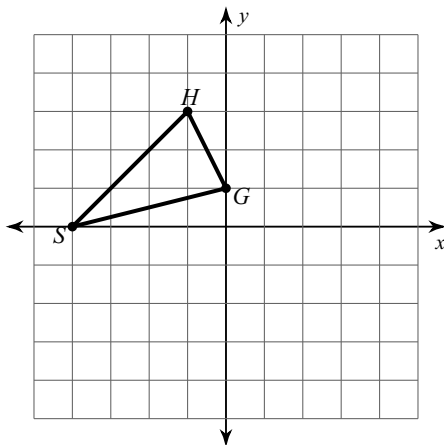
- 3) rotation 90° clockwise about the origin



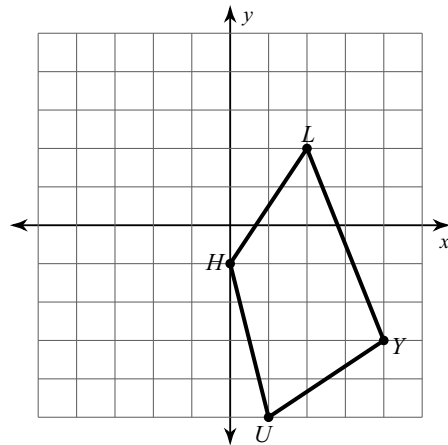
- 4) rotation 90° clockwise about the origin



- 5) rotation 180° about the origin

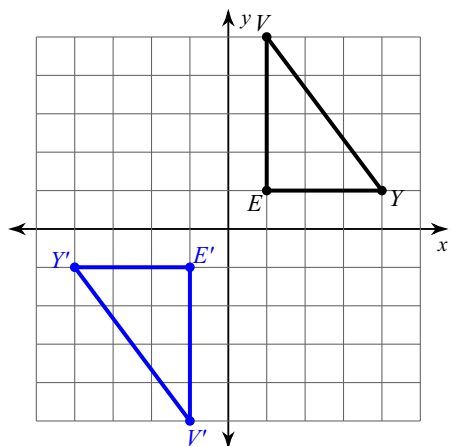


- 6) rotation 90° counterclockwise about the origin

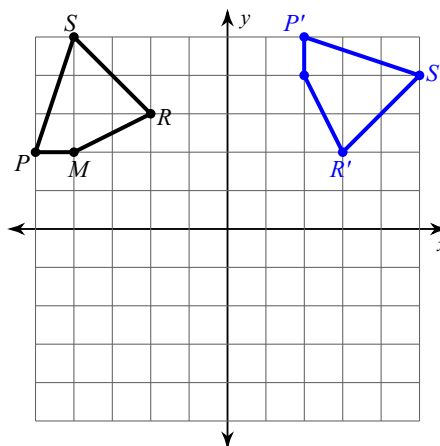


Write a rule to describe each transformation.

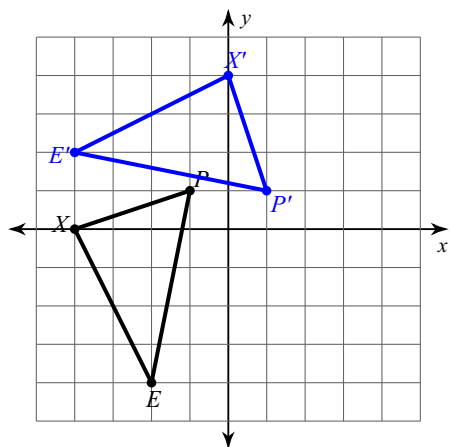
7)



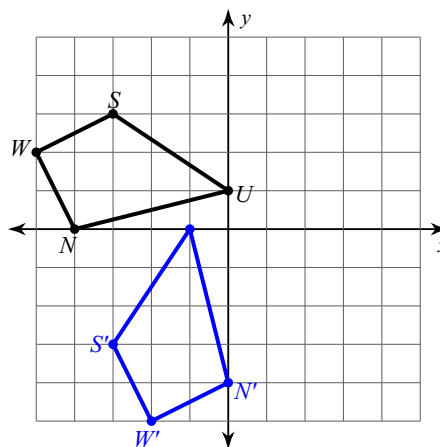
8)



9)

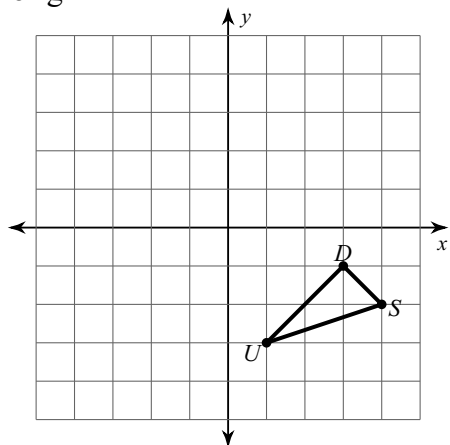


10)

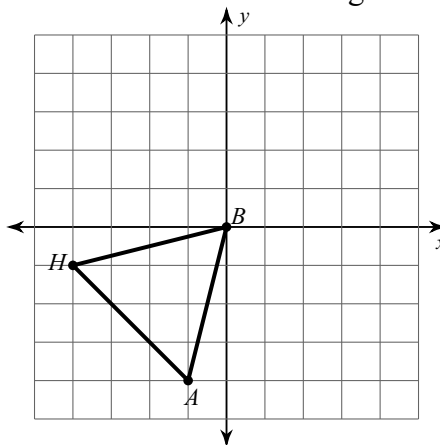


Find the coordinates of the vertices of each figure after the given transformation.

11) rotation 90° counterclockwise about the origin



12) rotation 180° about the origin



Rotation Practice

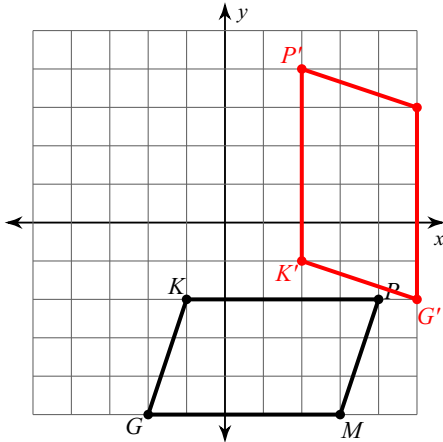
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Name _____

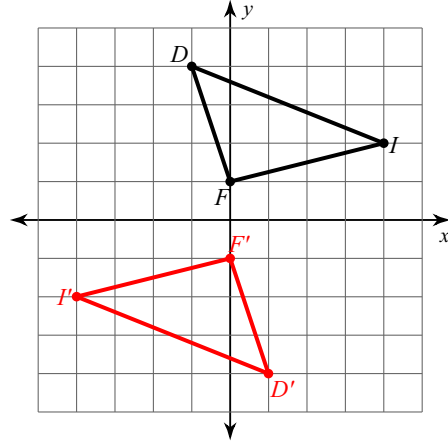
Date _____ Period _____

Graph the image of the figure using the transformation given.

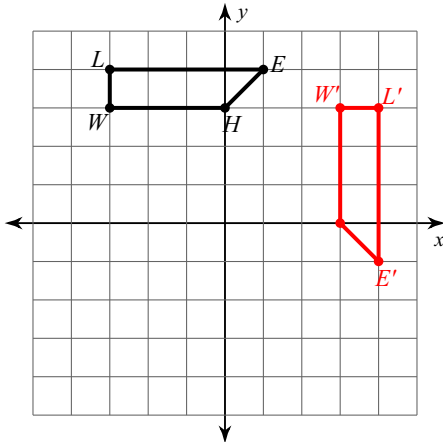
1) rotation 90° counterclockwise about the origin



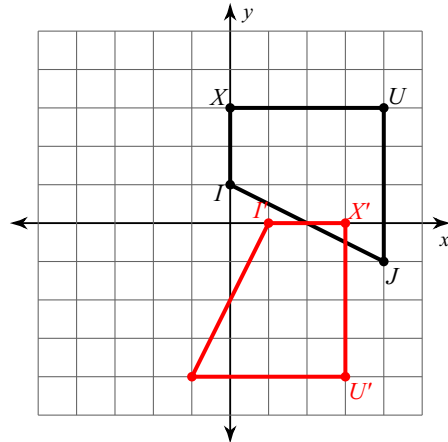
2) rotation 180° about the origin



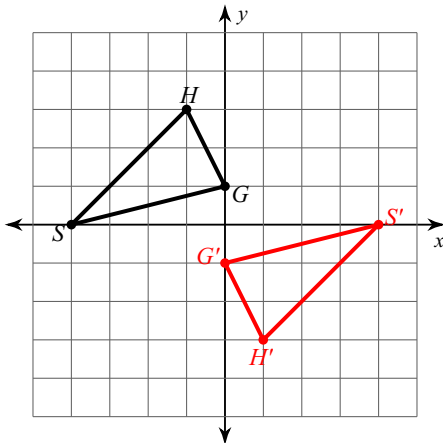
3) rotation 90° clockwise about the origin



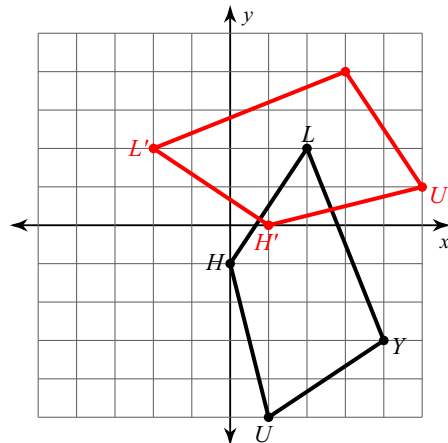
4) rotation 90° clockwise about the origin



5) rotation 180° about the origin

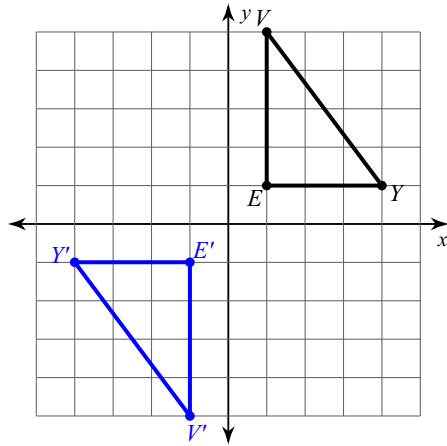


6) rotation 90° counterclockwise about the origin



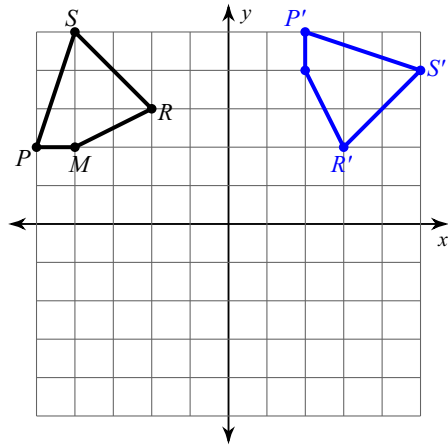
Write a rule to describe each transformation.

7)



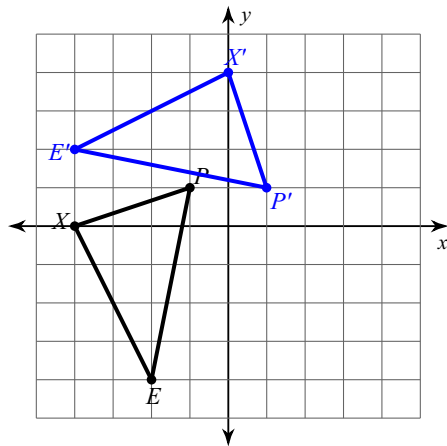
rotation 180° about the origin

8)



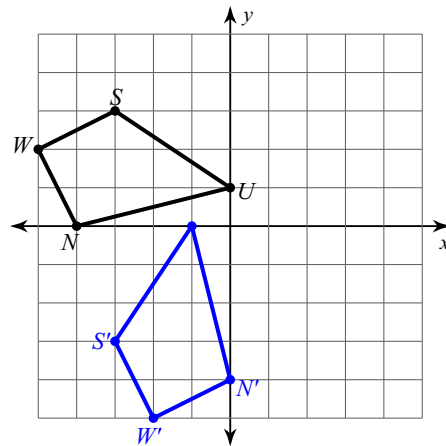
rotation 90° clockwise about the origin

9)



rotation 90° clockwise about the origin

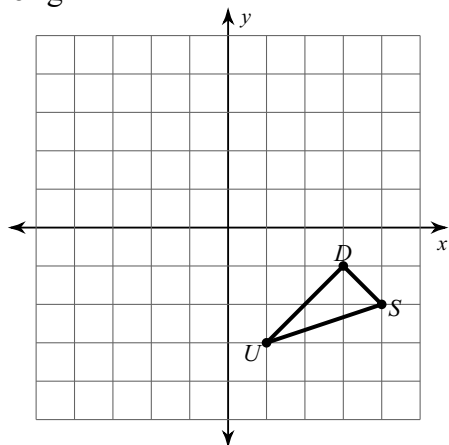
10)



rotation 90° counterclockwise about the origin

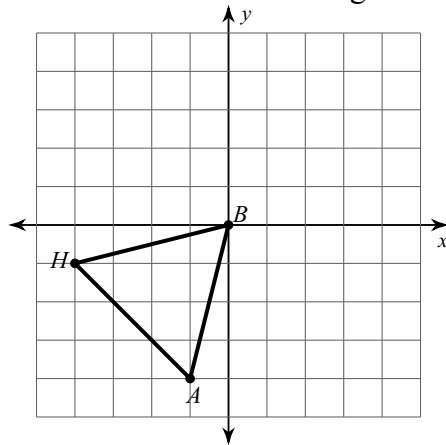
Find the coordinates of the vertices of each figure after the given transformation.

11) rotation 90° counterclockwise about the origin



$U'(3, 1), D'(1, 3), S'(2, 4)$

12) rotation 180° about the origin



$H'(4, 1), B'(0, 0), A'(1, 4)$