

**More Review for Rotational Symmetry**

**Name:** \_\_\_\_\_

The vertices of a polygon are listed and graphed. Label each polygon and its image after a given rotation. Name the coordinates of the image.

1. Rotate figure WXY about the origin  $90^\circ$  counterclockwise.

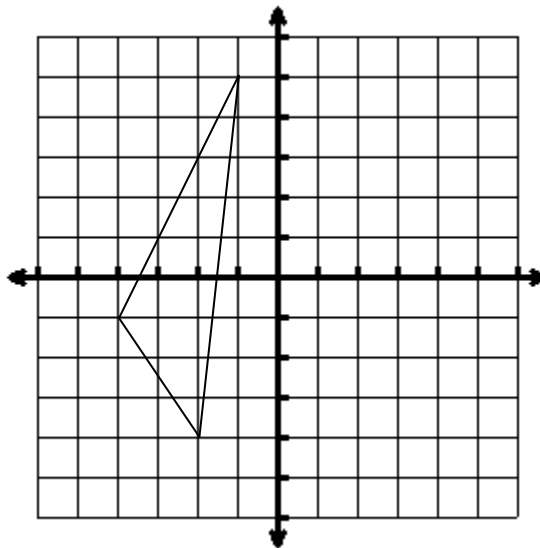
$W (-2, -4) \rightarrow W'$  \_\_\_\_\_

$X (-1, 5) \rightarrow X'$  \_\_\_\_\_

$Y (-4, -1) \rightarrow Y'$  \_\_\_\_\_

Write the general rule:

\_\_\_\_\_



2. Rotate figure JKL about the origin  $90^\circ$  clockwise

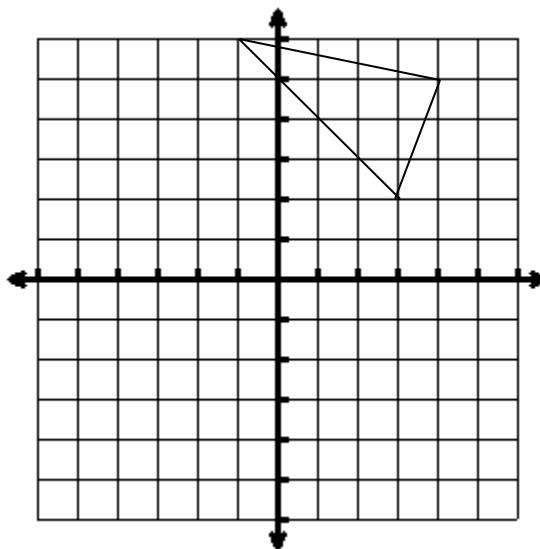
$J (3, 2) \rightarrow J'$  \_\_\_\_\_

$K (-1, 6) \rightarrow K'$  \_\_\_\_\_


$L (4, 5) \rightarrow L'$  \_\_\_\_\_


Write the general rule:


\_\_\_\_\_





For each figure state the order and the angle of rotation.


3.  Order: \_\_\_\_\_  
Angle : \_\_\_\_\_

4.  Order: \_\_\_\_\_  
Angle : \_\_\_\_\_

5.  Order: \_\_\_\_\_  
Angle : \_\_\_\_\_

6.  Order: \_\_\_\_\_  
Angle : \_\_\_\_\_

7.  Order: \_\_\_\_\_  
Angle : \_\_\_\_\_

8.  Order: \_\_\_\_\_  
Angle : \_\_\_\_\_

The vertices of a polygon are listed and graphed. Label each polygon and its image after a given rotation. Name the coordinates of the image.

9. Rotate figure ABC about the origin  $180^\circ$ .

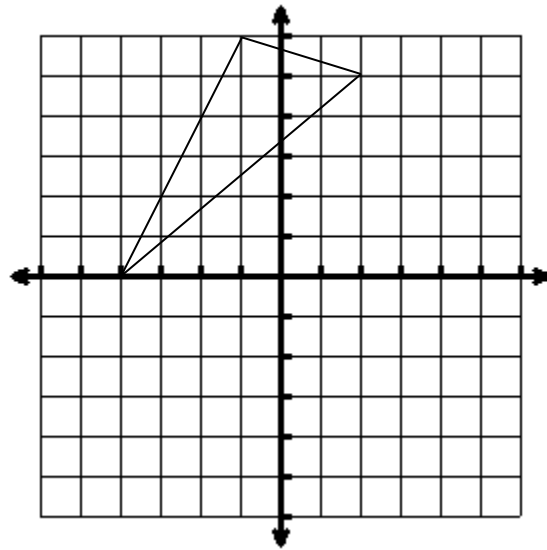
A  $(-4, 0) \rightarrow A'$  \_\_\_\_\_

B  $(-1, 6) \rightarrow B'$  \_\_\_\_\_

C  $(2, 5) \rightarrow C'$  \_\_\_\_\_

Write the general rule:

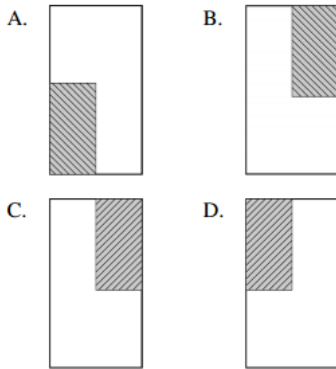
\_\_\_\_\_



10. Darlene designed the flag below.



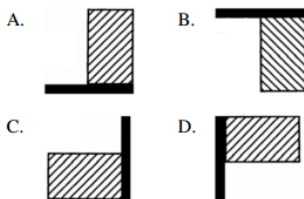
Which of the following shows Darlene's flag turned  $90^\circ$  counterclockwise?



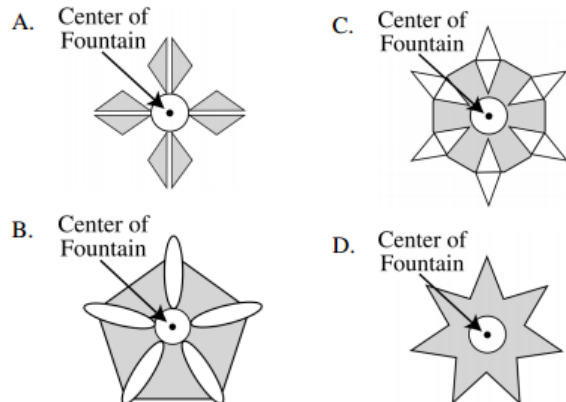
11.



Which of the following shows the flag above turned  $90^\circ$  clockwise?



12. Omar is designing a garden around a circular fountain. He plans for the garden to have a  $60^\circ$  rotational symmetry about the center of the fountain. Which of the following shaded designs for the garden would satisfy Omar's plan?



13. The shapes of some common traffic signs are shown below. Which of the following shapes does not have rotational symmetry?

