

Name:

BECA / Dr. Huson / Geometry 5 Congruence Transformations

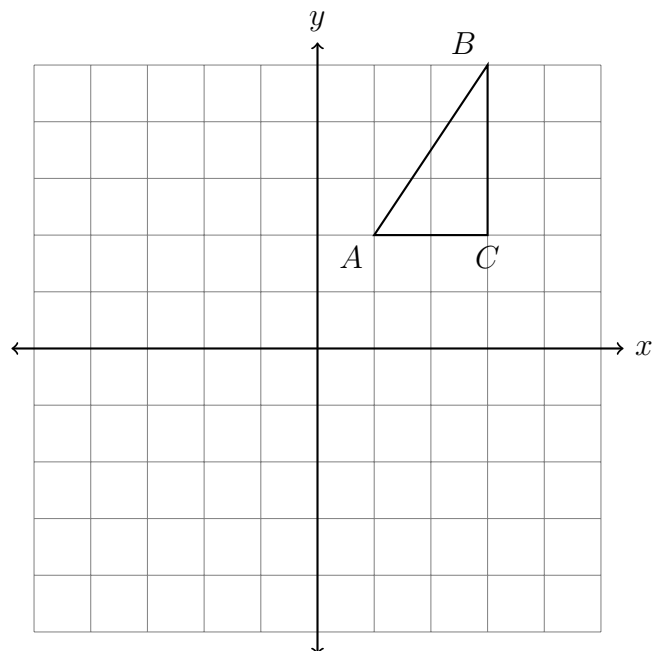
5.8 Exit Note: Rotation assessment**CCSS.HSG.CO.A.5**

1. Rotate the triangle 90° counterclockwise around the origin, $\triangle ABC \rightarrow \triangle A'B'C'$. Complete the table of the coordinates and plot and label the image on the grid.

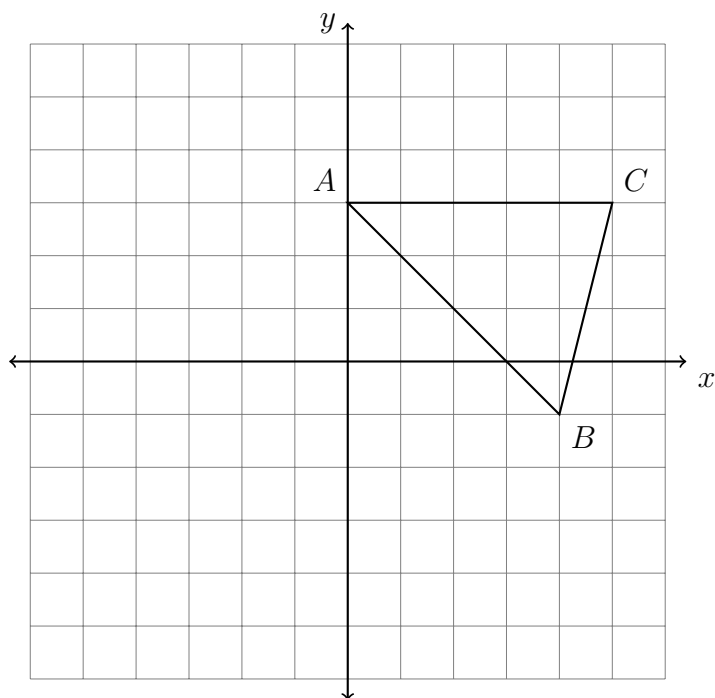
$$A(1, 2) \rightarrow$$

$$B(3, 5) \rightarrow$$

$$C(3, 2) \rightarrow$$

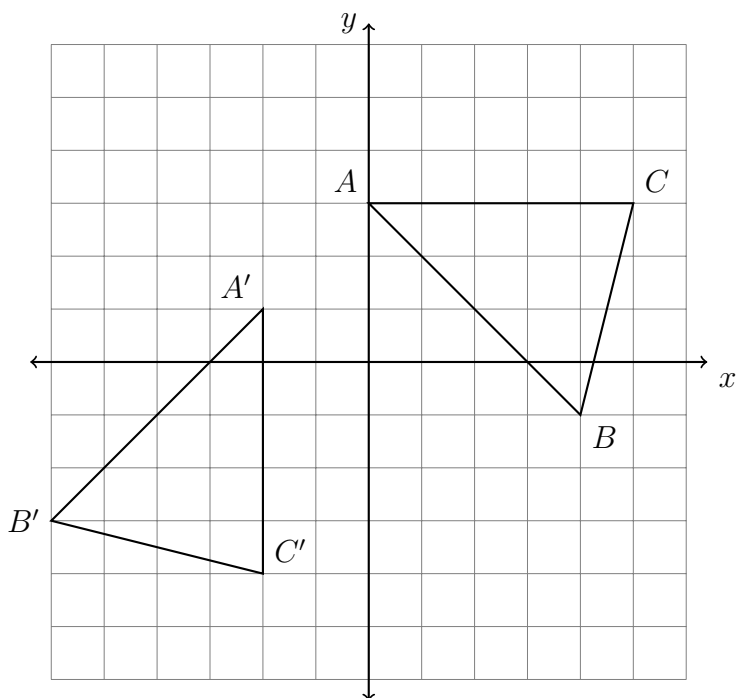


2. $\triangle ABC$ is shown with vertices $A(0, 3)$, $B(4, -1)$, and $C(5, 3)$. Rotate the triangle 90° clockwise around the origin. Write down its coordinates in a table and plot and label it on the graph.



Challenge

3. A rotation *not* centered at the origin maps $\triangle ABC \rightarrow \triangle A'B'C'$ as shown in the diagram below. Mark the center of rotation on the grid and label it P . To the left, completely specify the transformation, including the coordinates of the center of rotation, the direction, and the magnitude in degrees.



4. Rotate $\triangle ABC$ 90° counterclockwise around the point P . (label the image)

