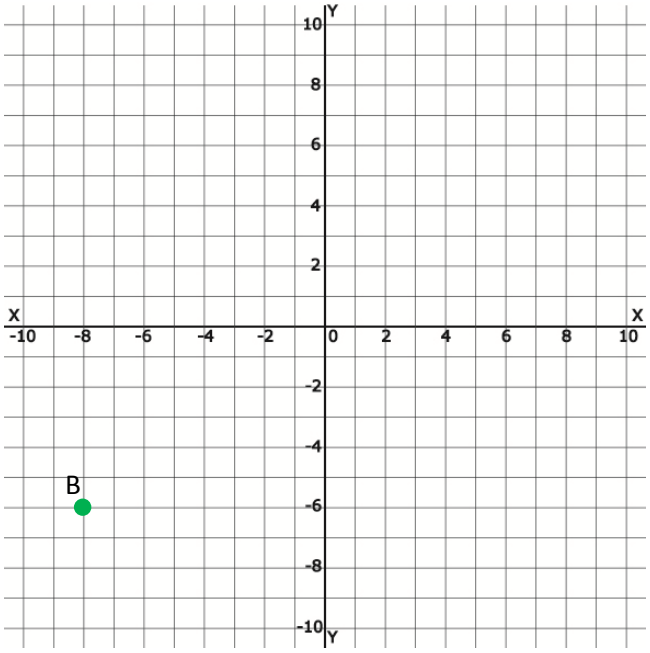
Name _____ Date _____

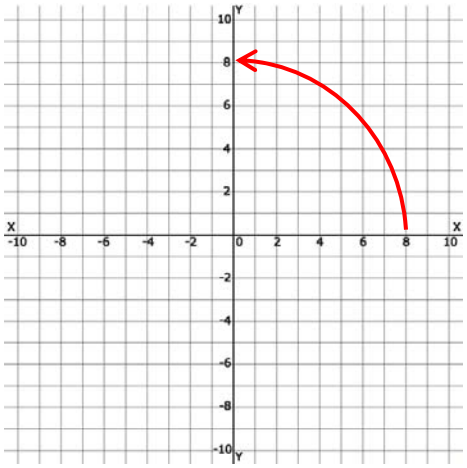
Drawing Transformed Figures - Step-by-Step Lesson

Graph the image of B (-8, -6) after a rotation 90° counterclockwise around the origin.



Explanation:

Step 1) A rotation turns a figure around a fixed point. 90° is ¼ of a full turn. The rotation will turn the point ¼ of a full turn in the counterclockwise direction. The diagram below shows a 90° counterclockwise rotation about the origin.



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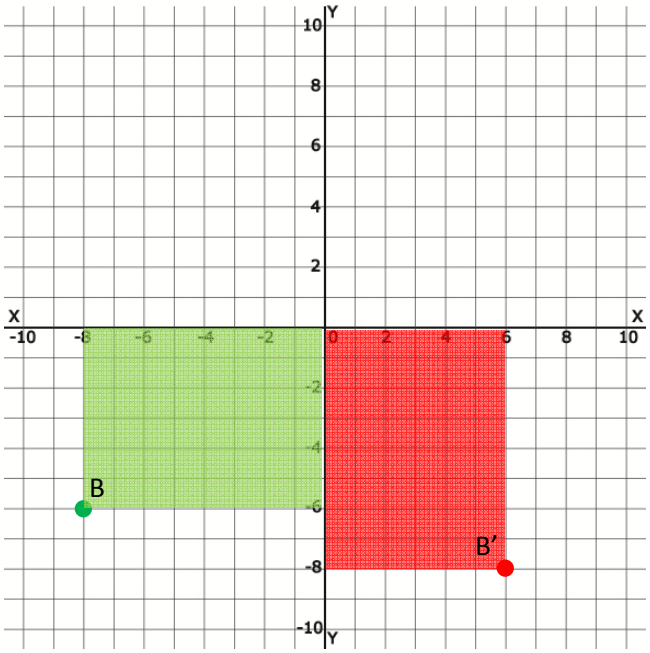
Step 2) Instead of starting from the origin, we start from the position of the point itself (-8, -6).

Rotate the point 90° counterclockwise (left to right) around the origin. The point will move from Quadrant III to Quadrant IV.

To find the exact location, imagine (0, 0) and B forming opposite corners of a box. Rotate the box, keeping the (0, 0) corner fixed.



Step 3) The rotated point is *B'*(6, -8).