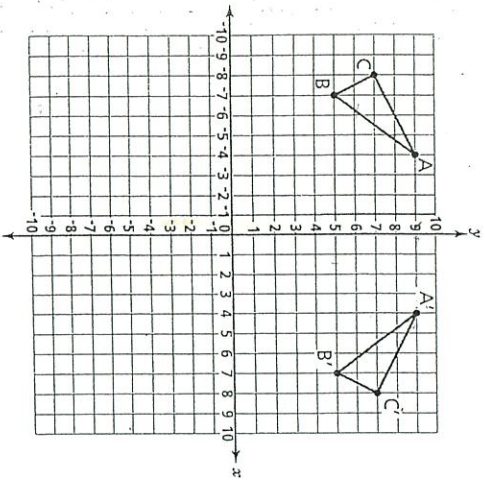


Name: Key

Reflections Homework

- ① Triangle ABC and triangle A'B'C' are plotted on the coordinate plane below.



What is the name of the transformation applied to triangle ABC that resulted in triangle A'B'C'?

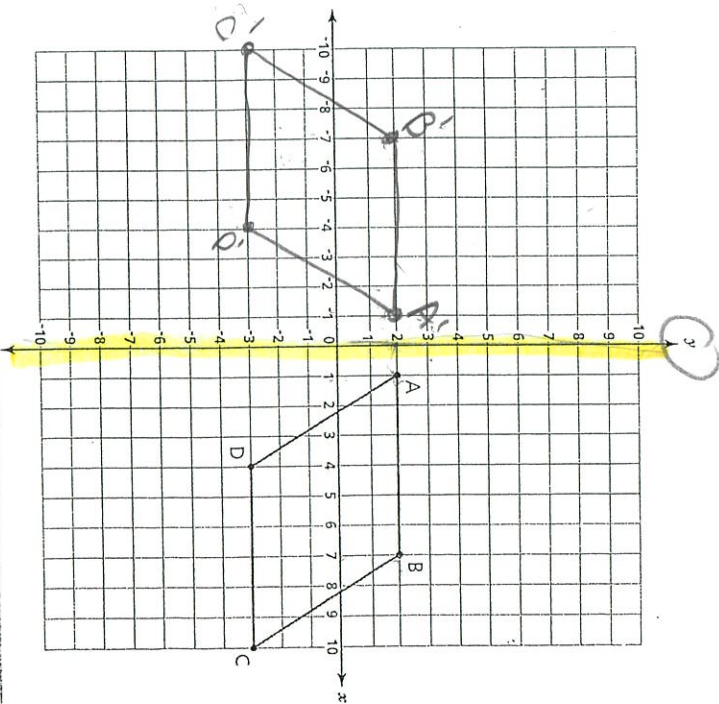
Answer: Reflection

On the lines below, describe how the **coordinates of point A** changed to the coordinates of point A'.

The coordinates of A (-4, 9) changed to A'(4, 9). The x-coordinate changed its sign. Point A is 4 units to the left of the y-axis so A' must be 4 units to the right of the y-axis.

- ②

Alexis started making a design by drawing figure ABCD. The next figure in her design is the reflection of figure ABCD in the y-axis. On the coordinate plane below, draw the reflection of figure ABCD. Label the image A'B'C'D'.



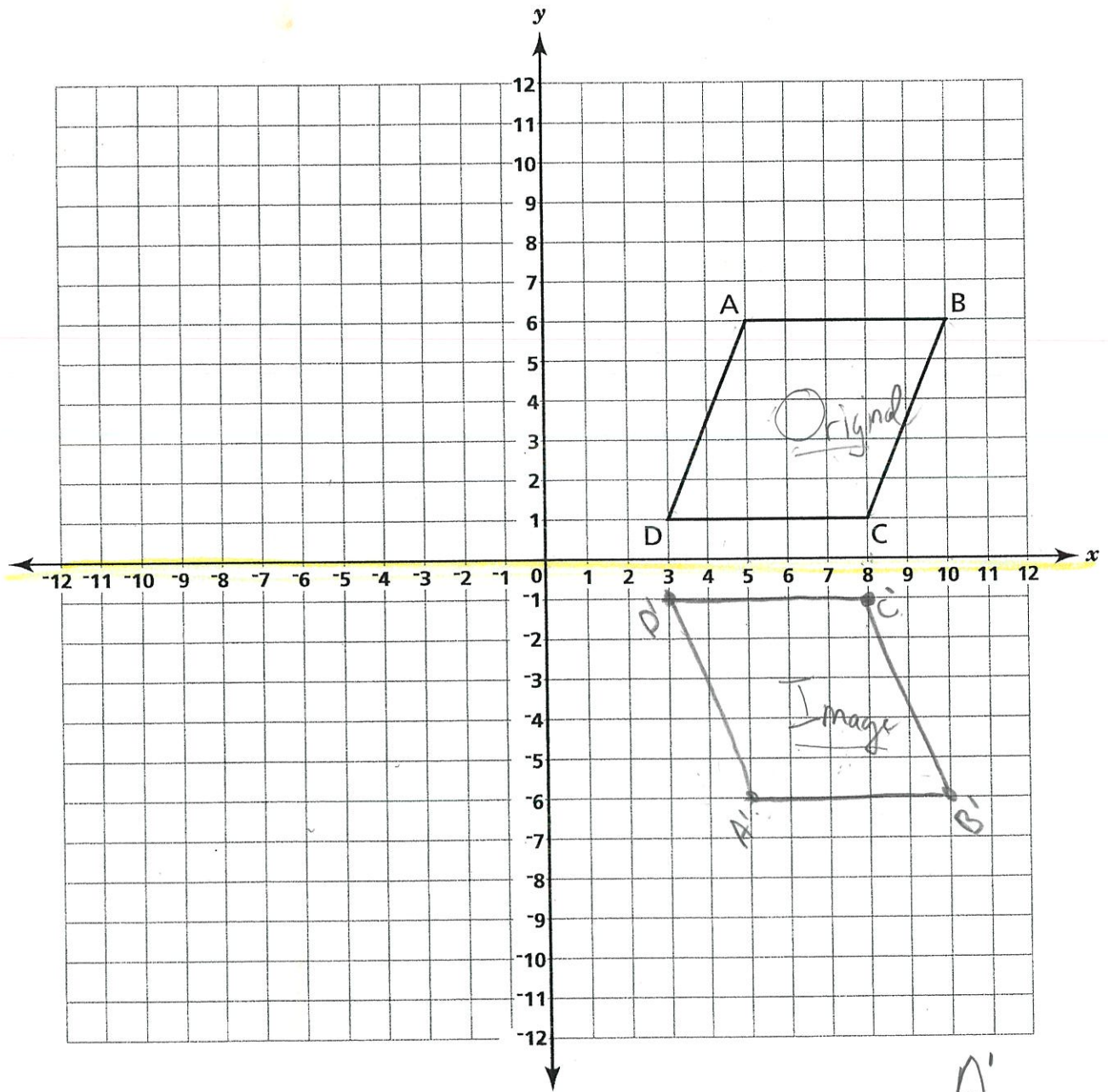
On the lines below, explain how you determined the location of B'.

B is 7 units to the right of y, so B' is 7 units to the left of y. - or - Change B(7, 2) to B'(-7, 2) by changing the x-coordinates.

OVER →

3

On the coordinate plane below, draw the image of quadrilateral ABCD reflected over the x-axis. Label the image A'B'C'D'.



On the lines below, explain how you determined the location of A'.

\* I reflected A over the x-axis. A(5,6) became A'(5,-6). I changed the y-coordinate. (or) A was 6 units above the x-axis so A' is 6 units below the x-axis.