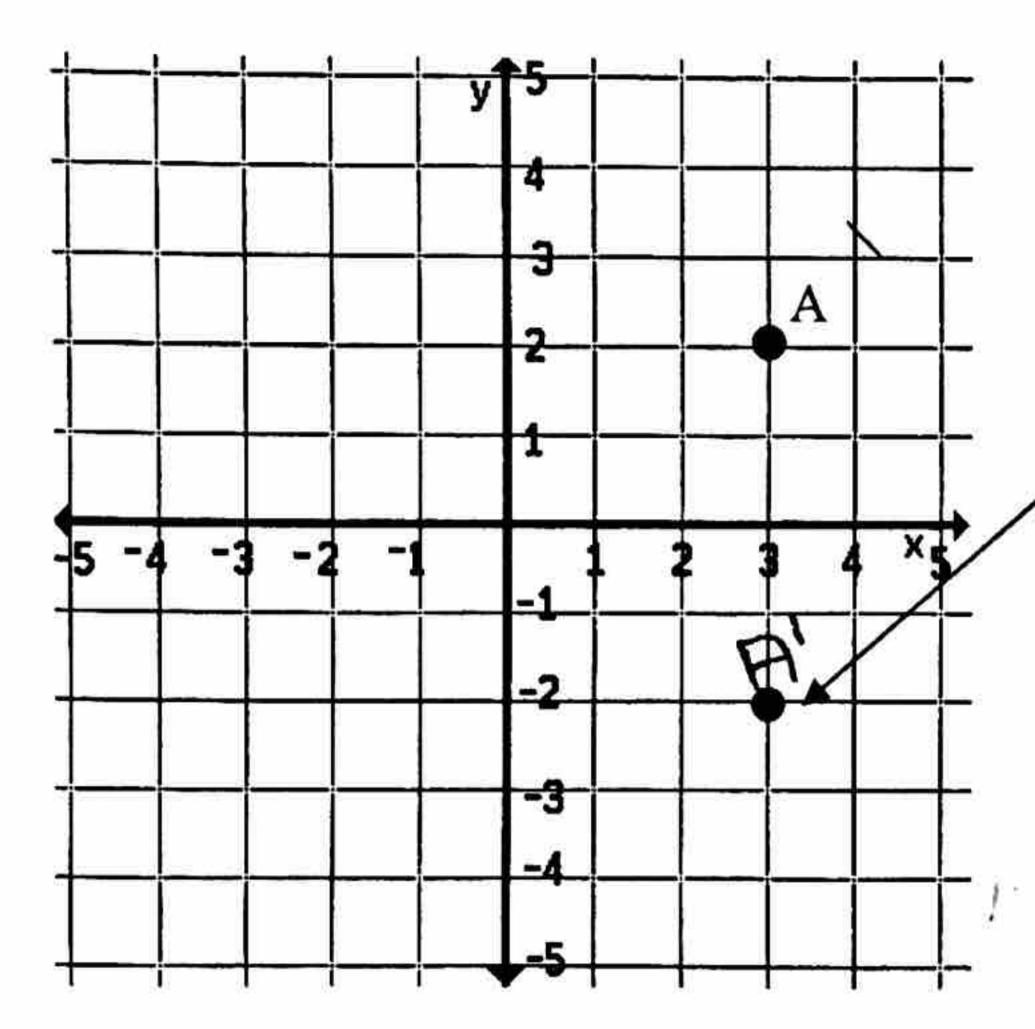
Guided Reflection Notes Reflecting a point over the x- or y-axis

Reflecting over the x-axis: $A^1 = Aprime$



Write down the ordered pair for A.

If A is reflected across the x- axis, what would be the new point on the graph?

I shall this point

Label this point.

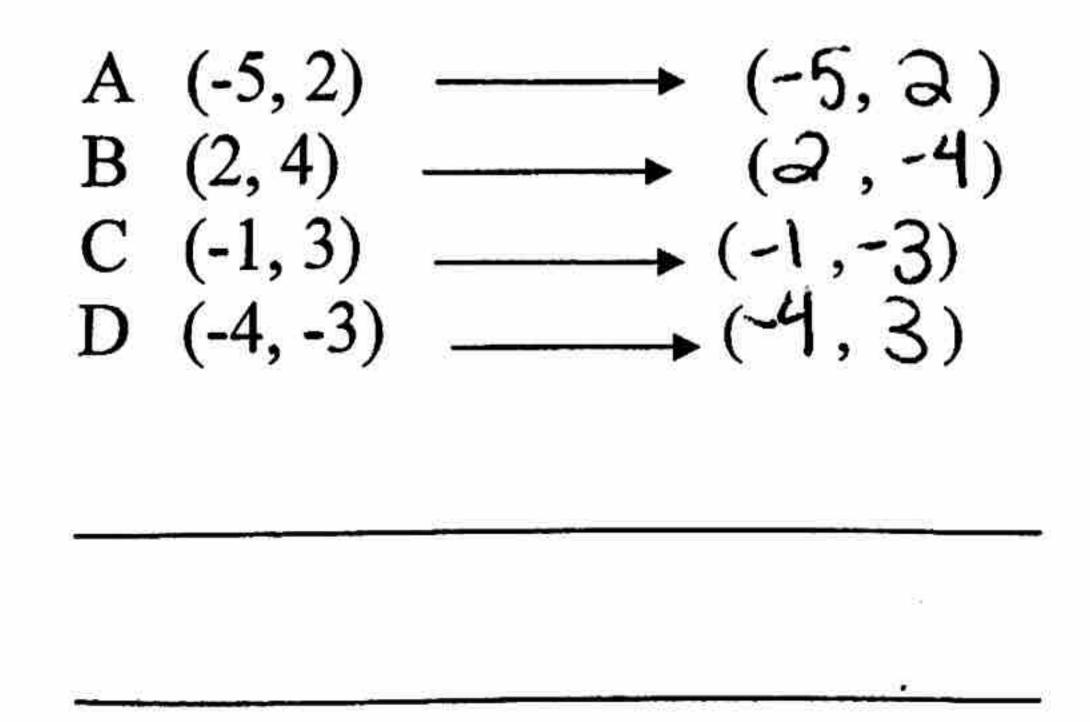
A (3,2) A (3,-2)

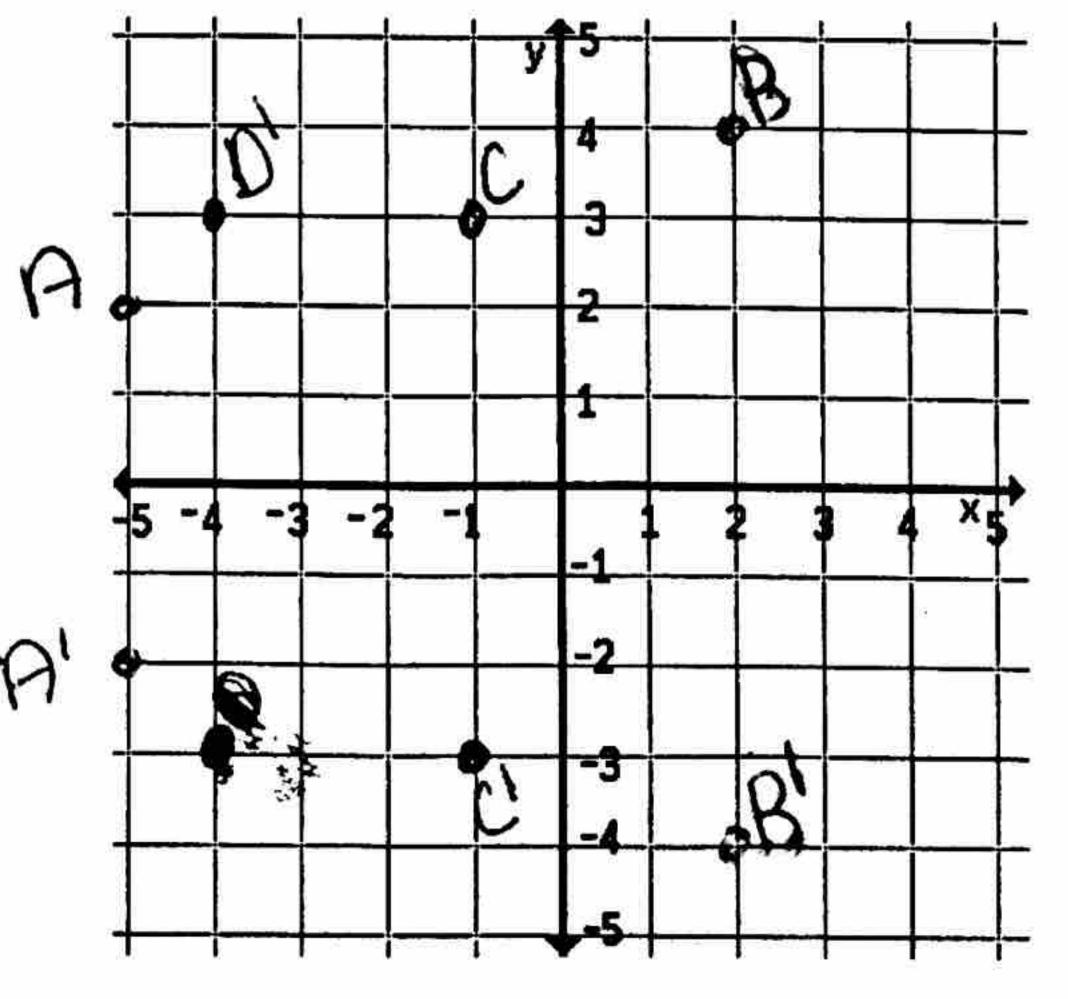
Look at both points, what observations can you make about the two points.

Reflecting over the x-axis rule: X-Value Stays the same the Signs of the y-value Change to the opposite

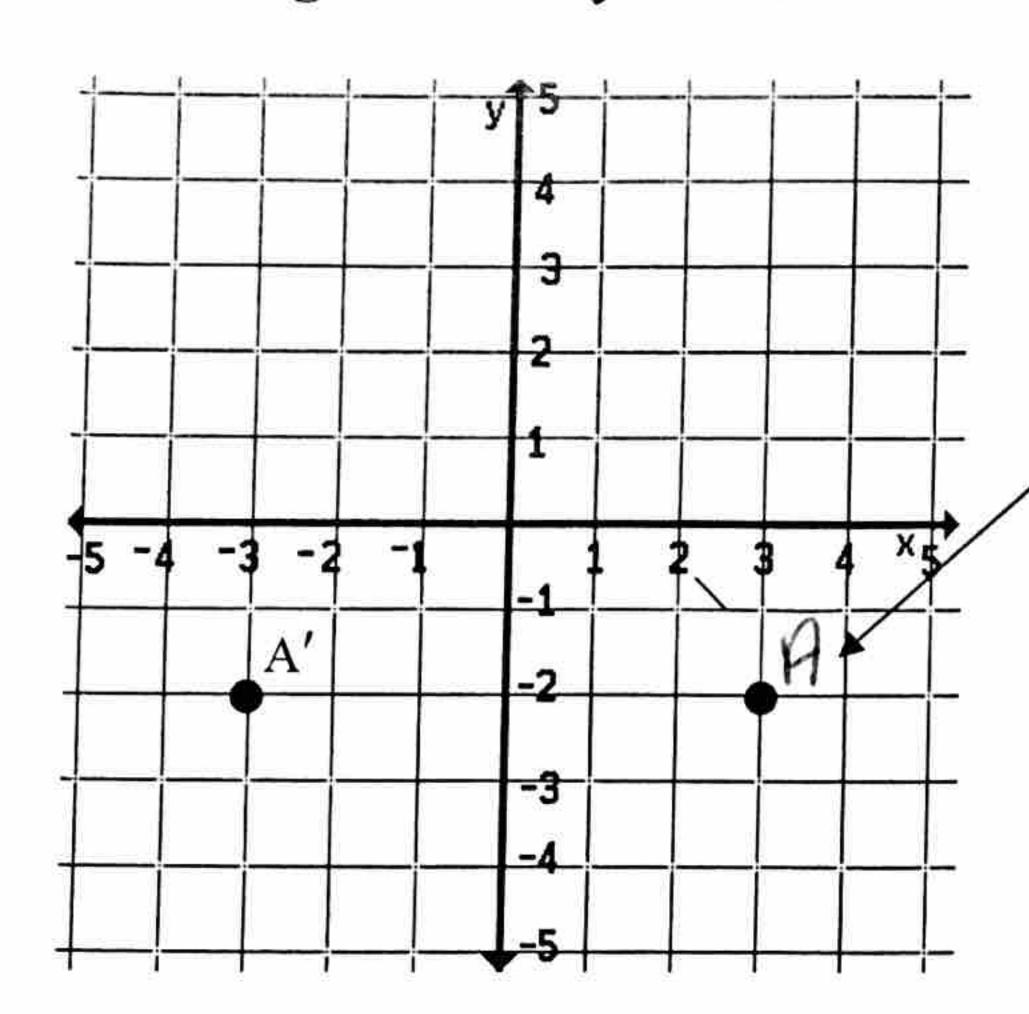
Try it:

Graph the following points in the correct quadrant of the coordinate plane. If the point is reflected across the x-axis, what are the coordinates of the reflected points? What similarities are between coordinates of the original point and reflected point?





Reflecting over the y-axis:



Write down the ordered pair for A.

If A is reflected across the y- axis, what would be the new point on the graph?

Label this point.

Label this point.

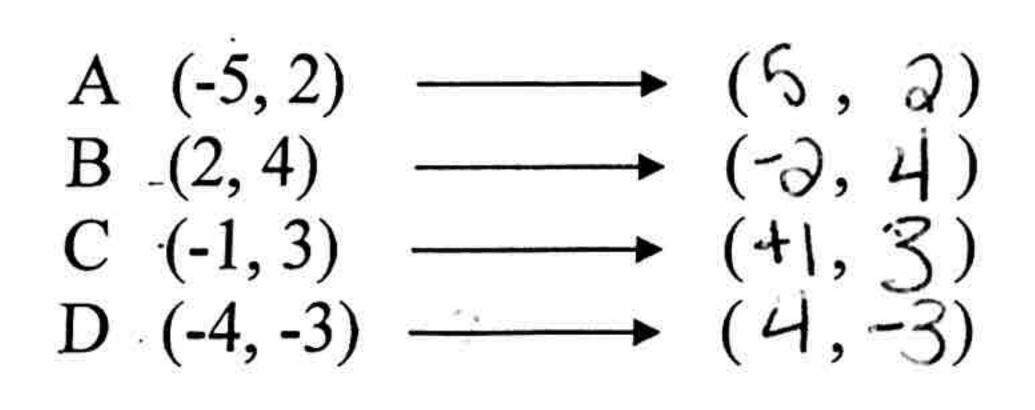
(3,-2) A (-3,-2)

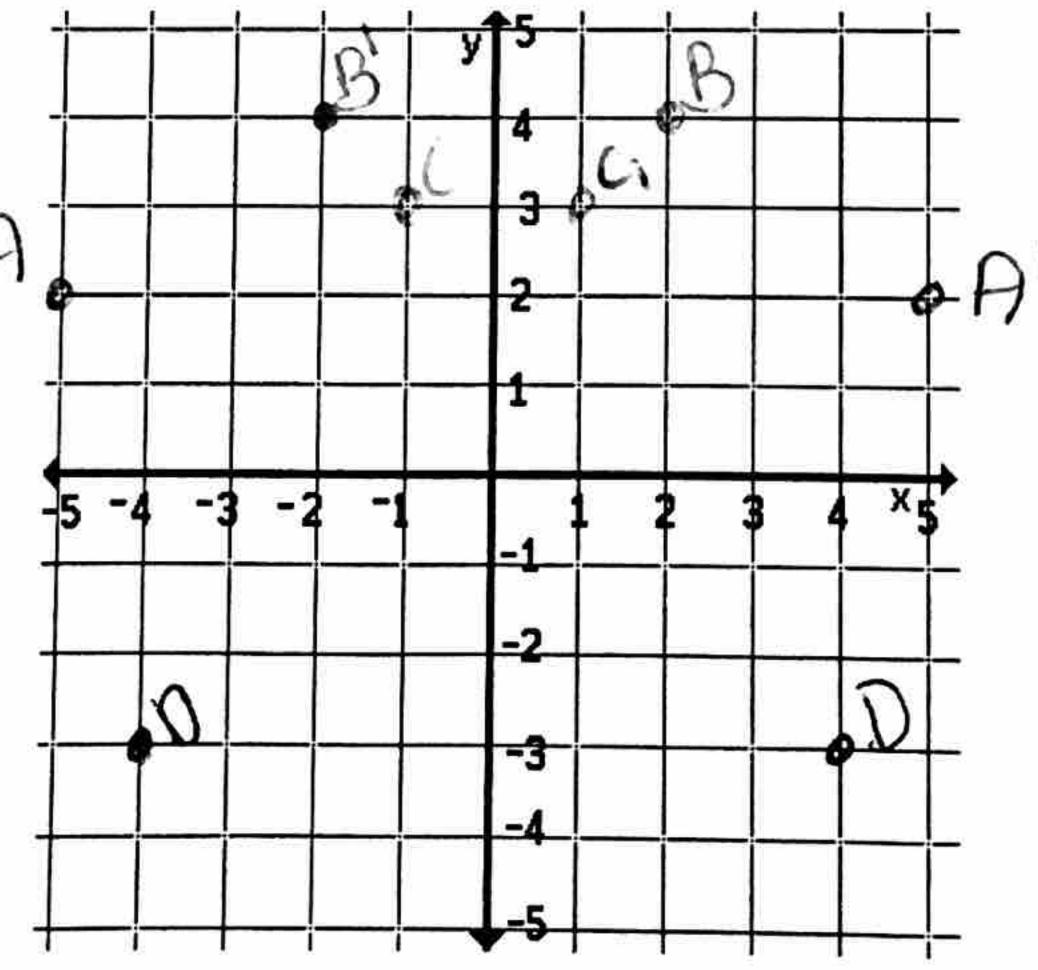
Look at both points, what observations can you make about the two points.

Reflecting over the y-axis rule: the y-value Stays the same the Sign of the x-value changes to the opposite.

Try it:

Graph the following points in the correct quadrant of the coordinate plane. If the point is reflected across the y-axis, what are the coordinates of the reflected points? What similarities are between coordinates of the original point and reflected point?





What do you think happens to the following point if it starts at (2, -4) and ends at (-2, 4)?