

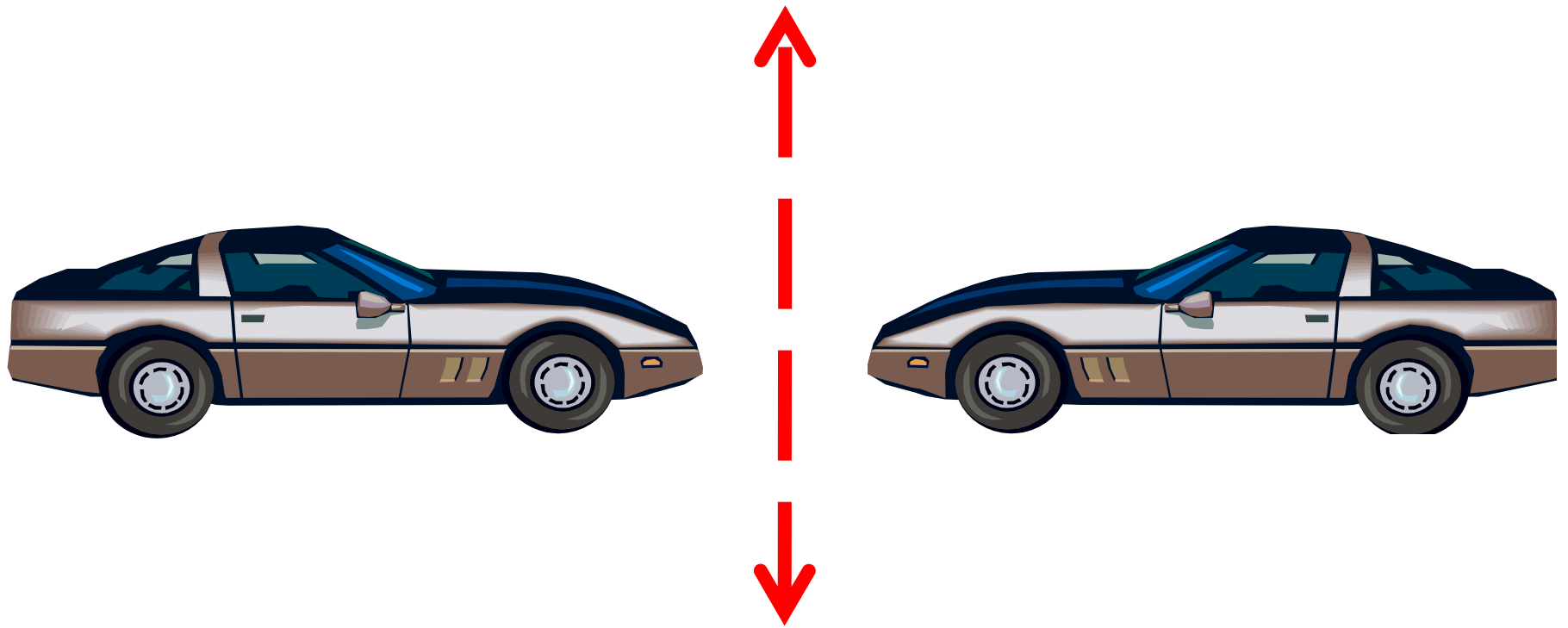
**2.2**

# **Reflections**

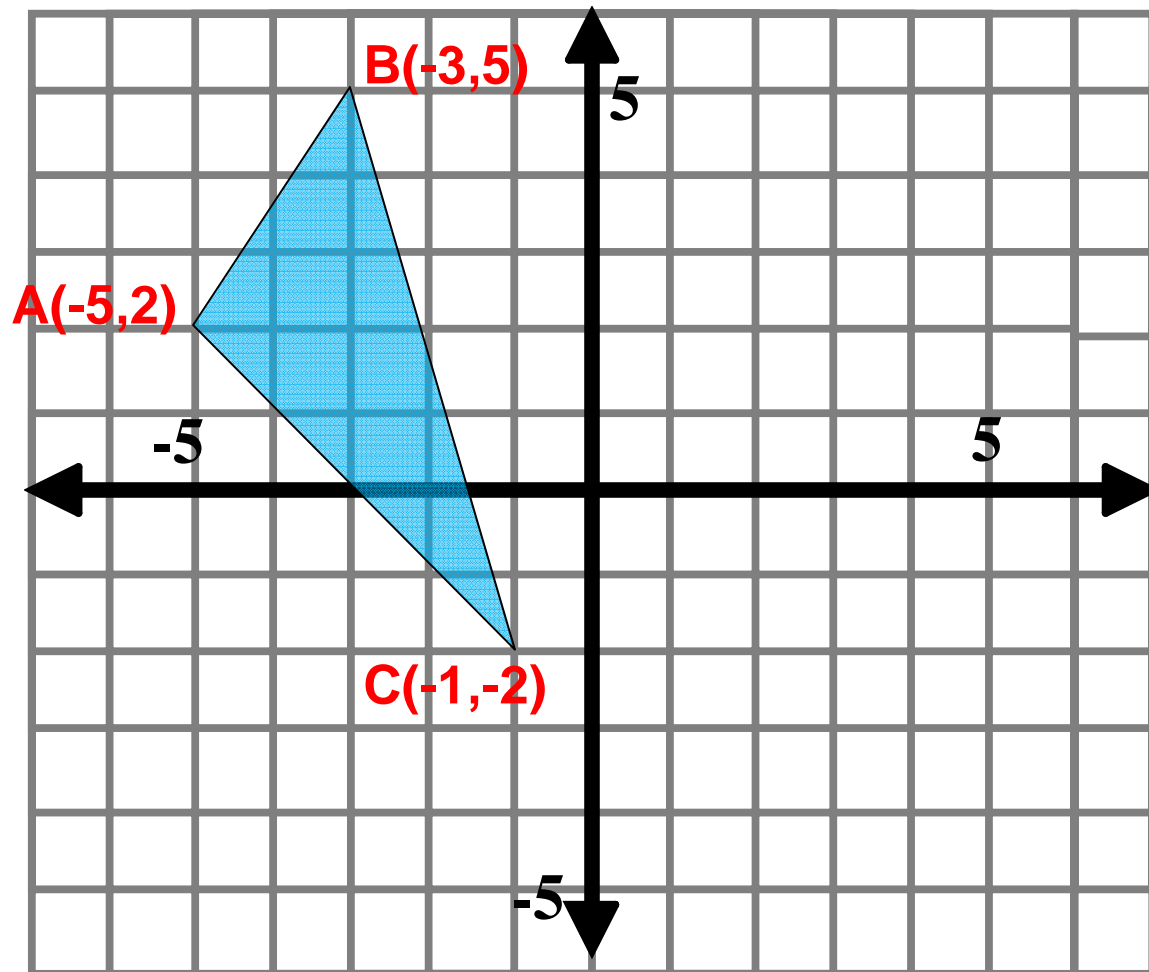
# Vocabulary

## Reflection

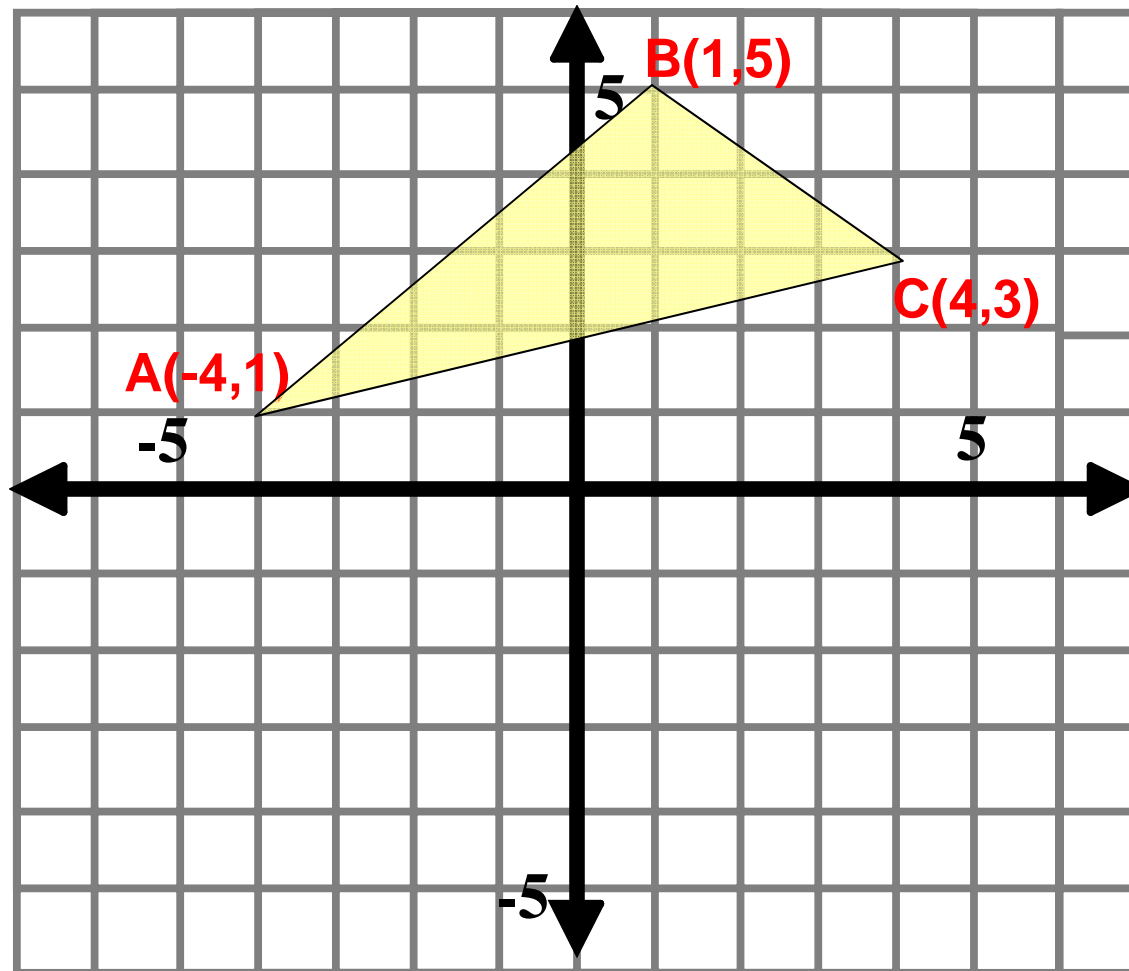
Mirror image of an object across a line or a point



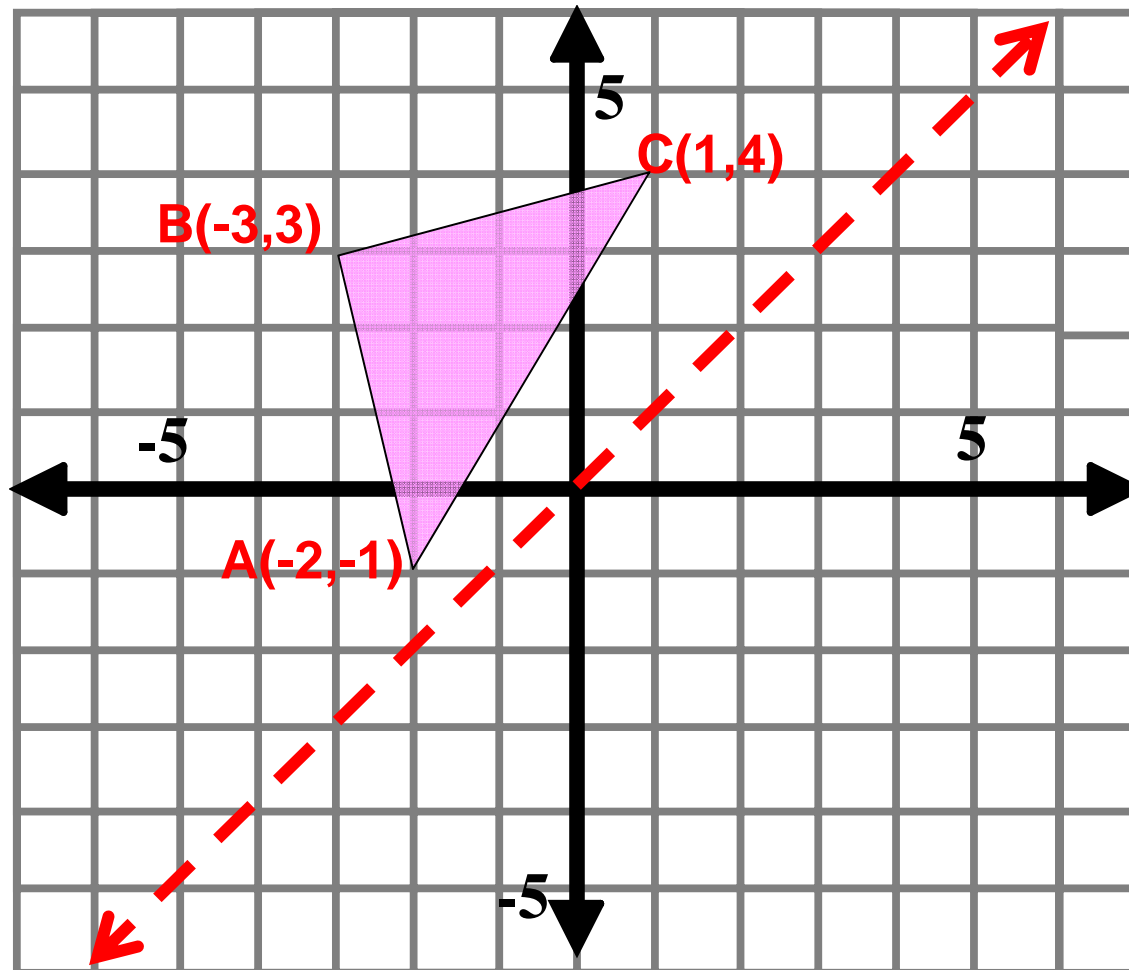
# Reflections on a Coordinate Plane



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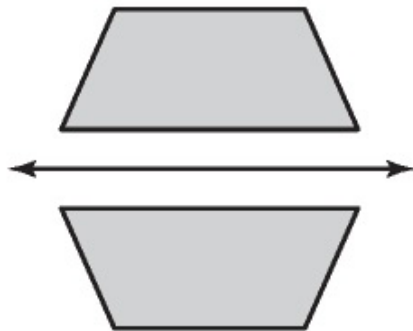
# Reflections on a Coordinate Plane



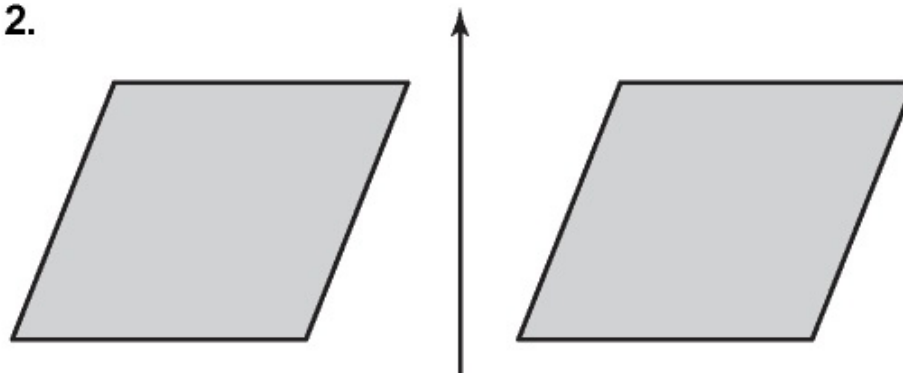
# Practice

Tell whether one figure is a reflection of the other figure.

1.



2.



# Practice

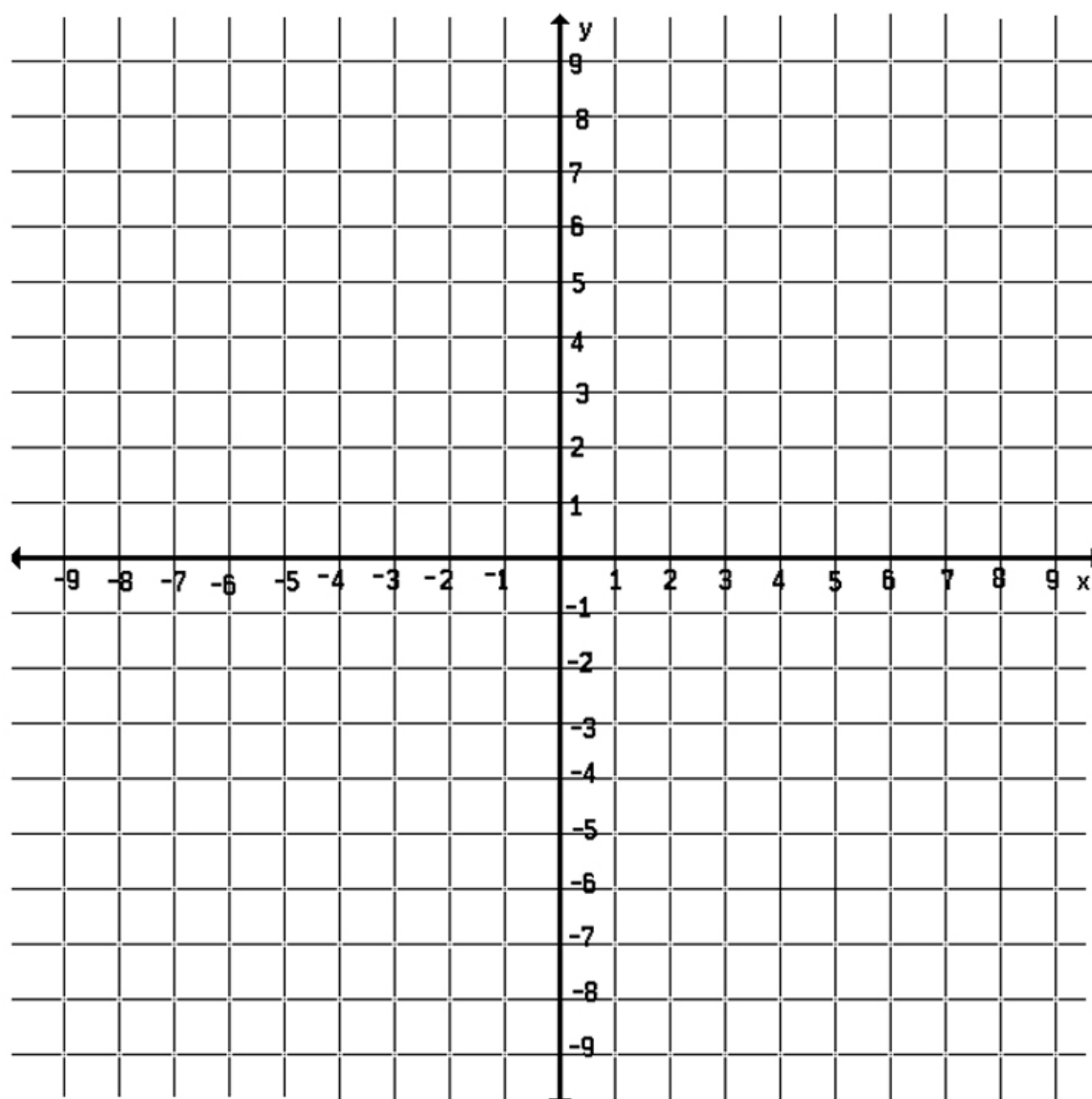
Draw the figure and its reflection in the  $x$ -axis. Identify the coordinates of the image.

3.  $E(0, 2)$ ,  $F(3, 1)$ ,  $G(4, 3)$

4.  $H(-3, 2)$ ,  $I(-1, 5)$ ,  $J(2, 1)$

Draw the figure and its reflection in the  $x$ -axis. Identify the coordinates of the image.

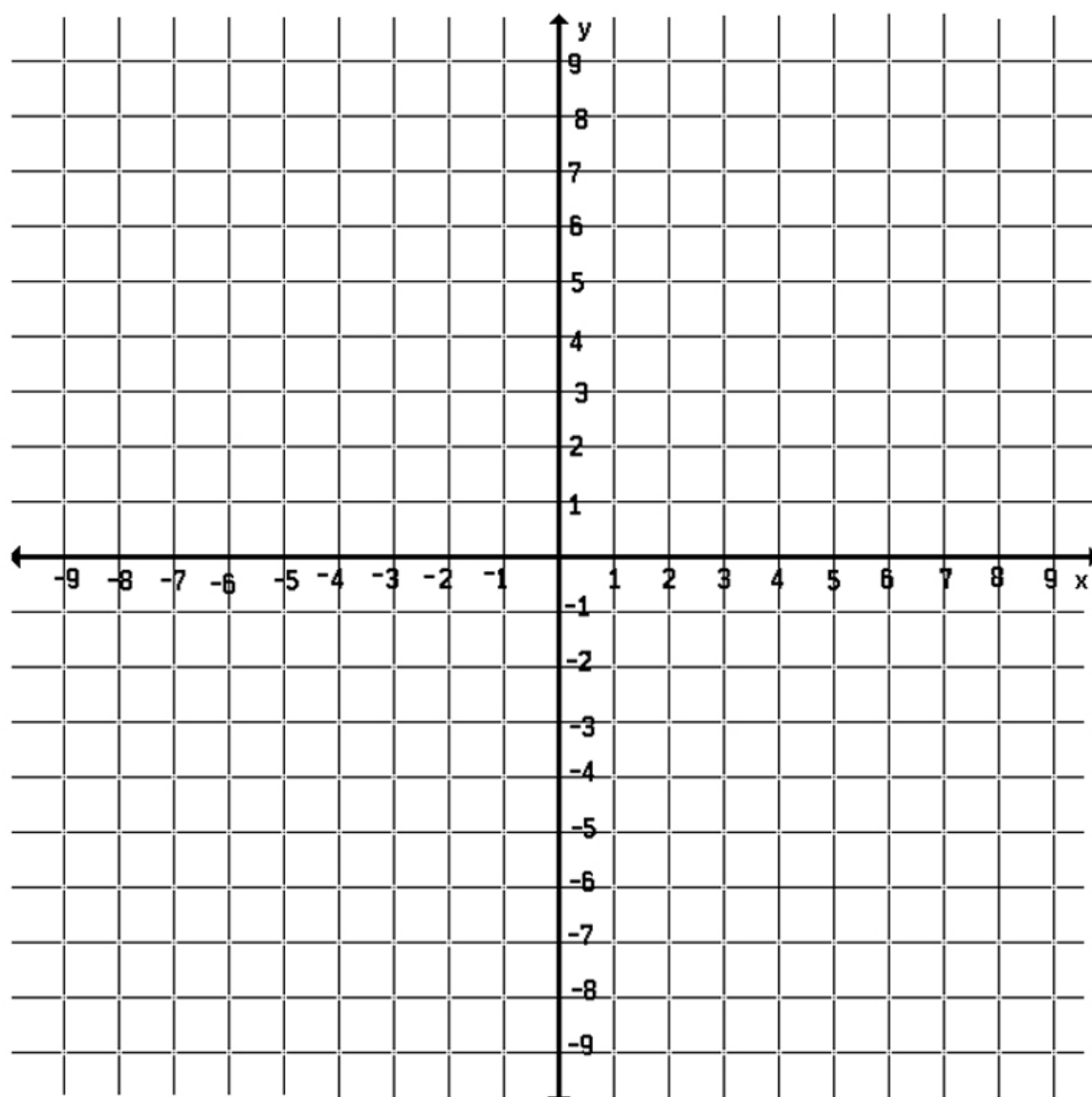
3.  $E(0, 2), F(3, 1), G(4, 3)$





Draw the figure and its reflection in the  $y$ -axis. Identify the coordinates of the image.

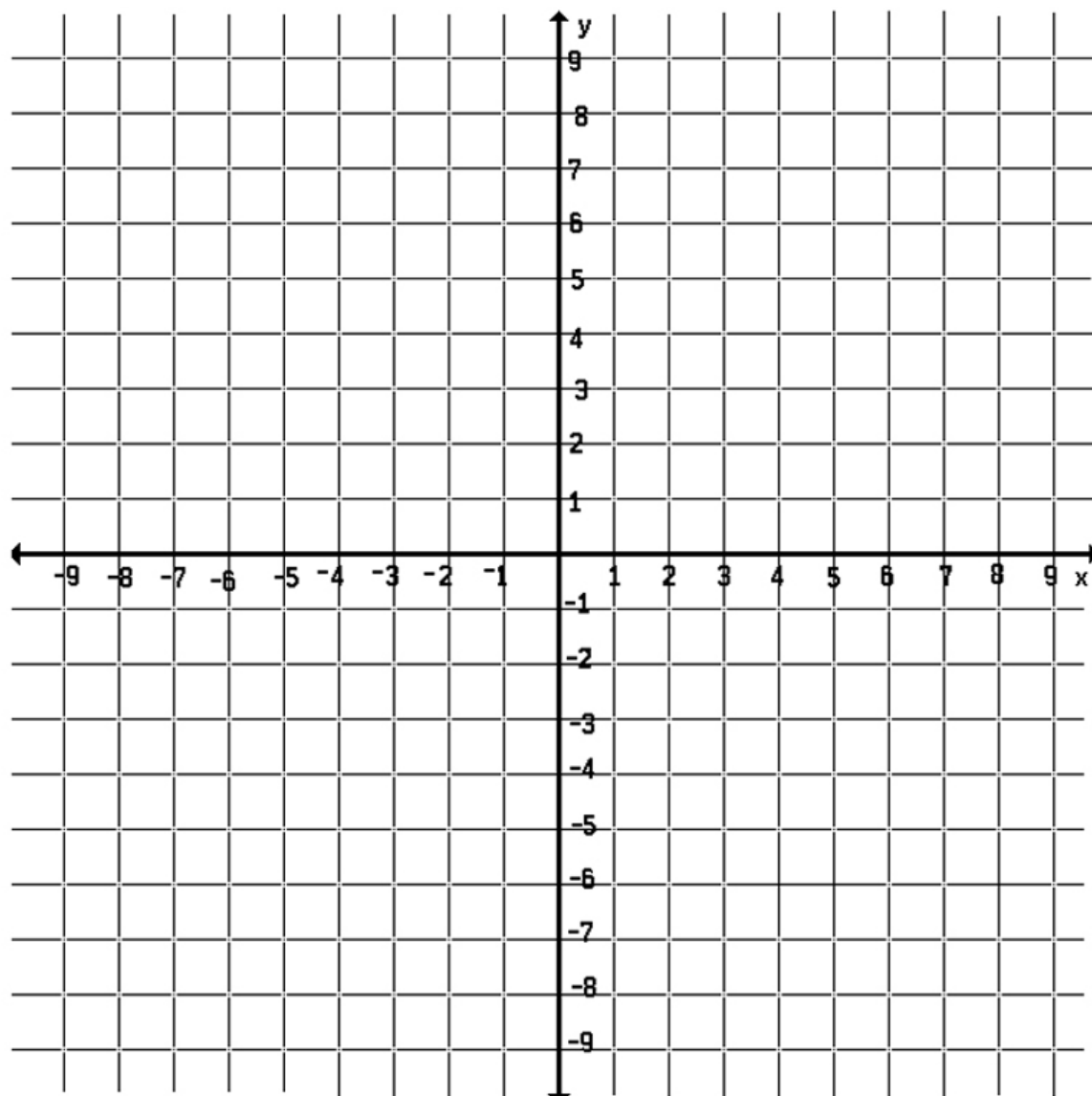
5.  $X(0, -1), Y(2, 3), Z(4, -2)$



The coordinates of a point and its image are given. Is the reflection in the  $x$ -axis or  $y$ -axis?

8.  $(-5, 2) \rightarrow (5, 2)$

9.  $(4, 3) \rightarrow (4, -3)$



10. Translate the triangle 2 units left and 1 unit up. Then reflect the image in the  $x$ -axis. Graph the resulting triangle.

