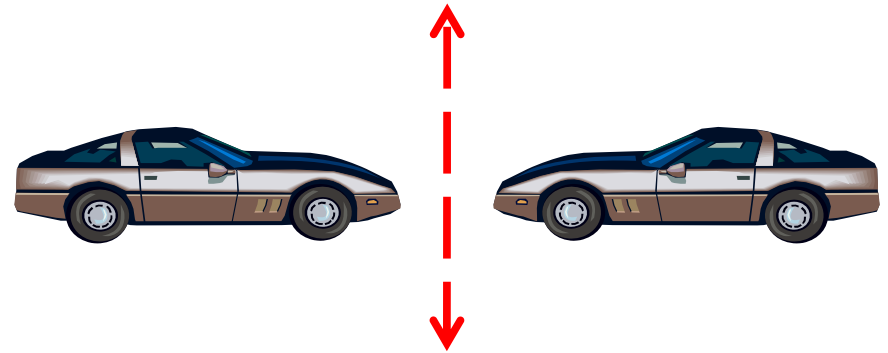


2.3 Reflections

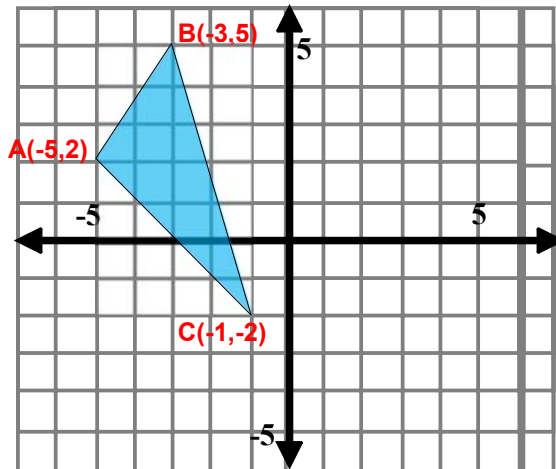
Vocabulary

Reflection

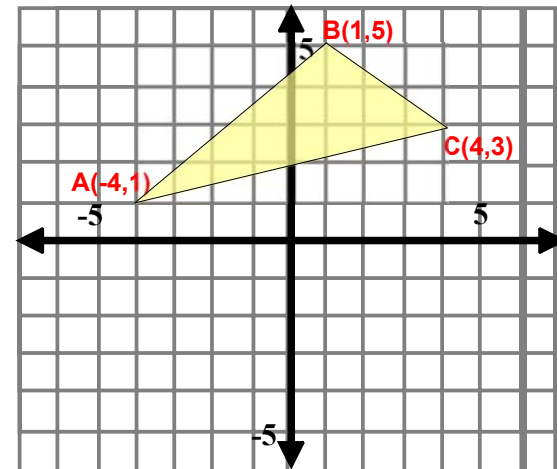
Mirror image of an object across a line or a point



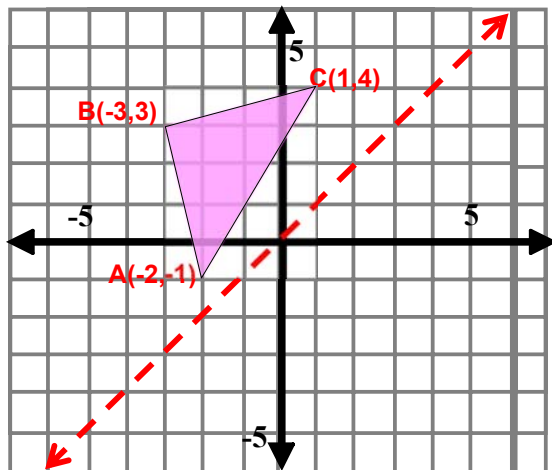
Reflections on a Coordinate Plane



Reflections on a Coordinate Plane



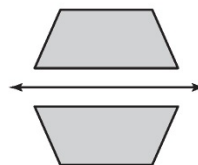
Reflections on a Coordinate Plane



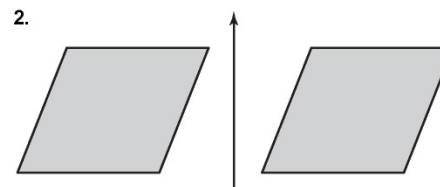
Practice

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

1.



2.



Practice

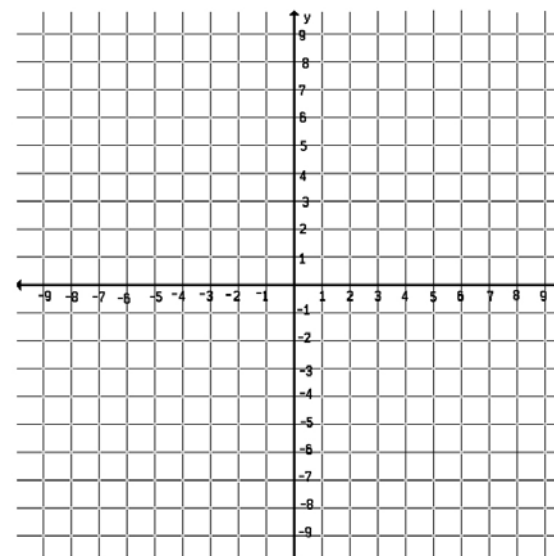
Draw the figure and its reflection in the x -axis. Identify the coordinates of the image.

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

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

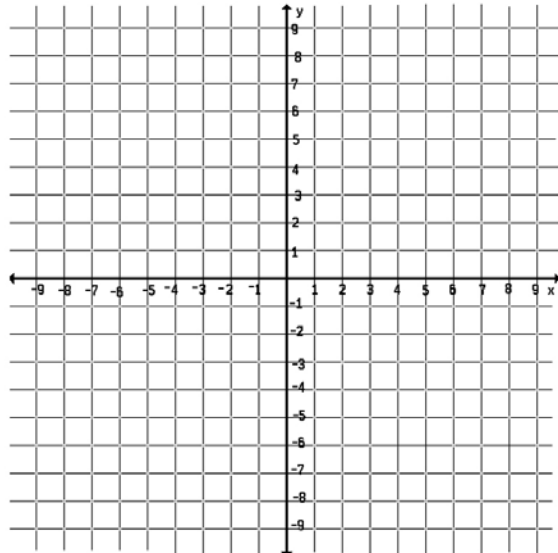
Draw the figure and its reflection in the x -axis. Identify the coordinates of the image.

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.

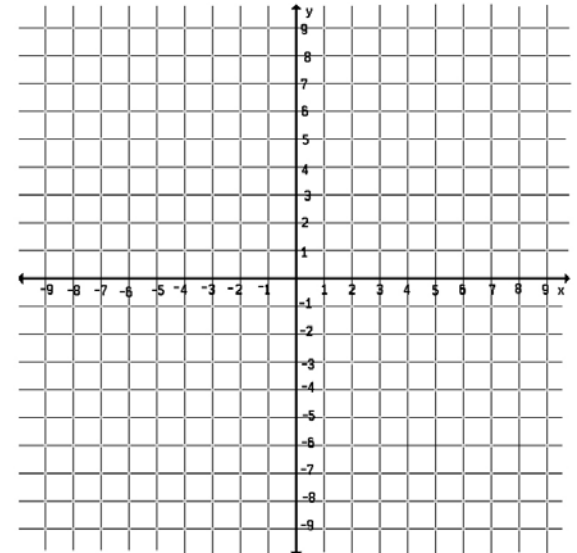
5. $X(0, -1)$, $Y(2, 3)$, $Z(4, -2)$



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.

