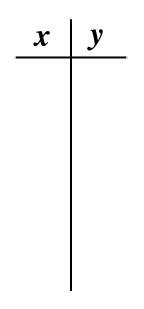
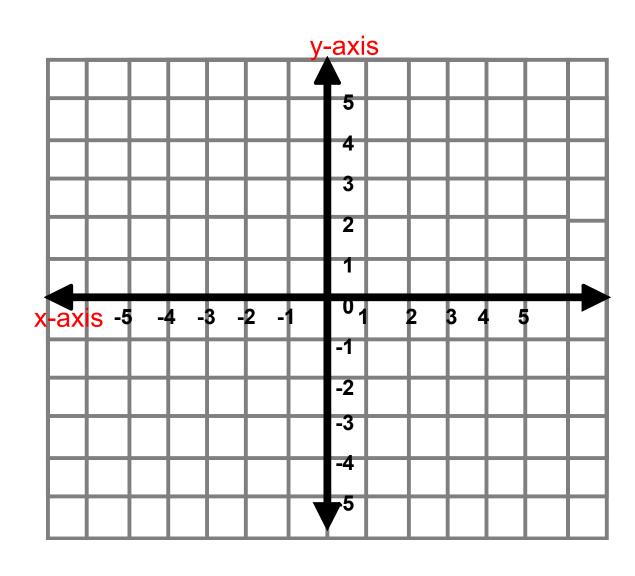
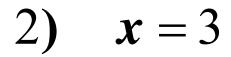
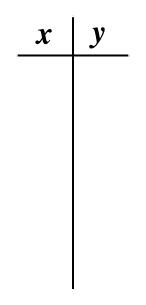
2.3 Reflections

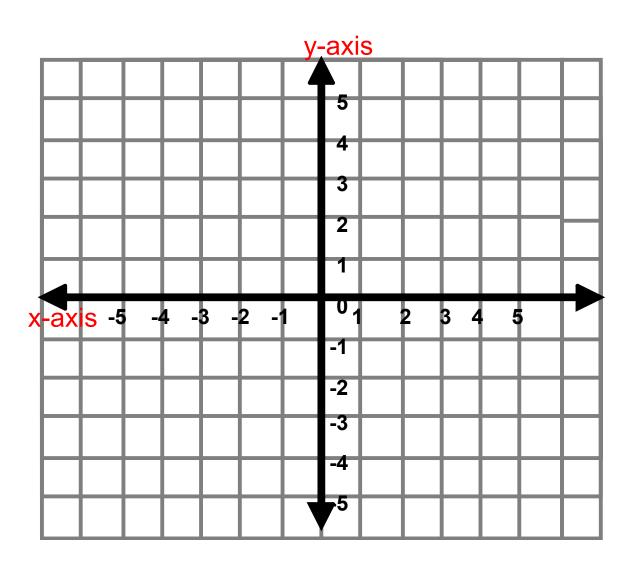




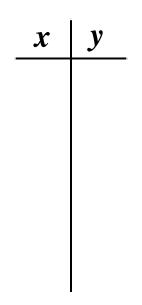


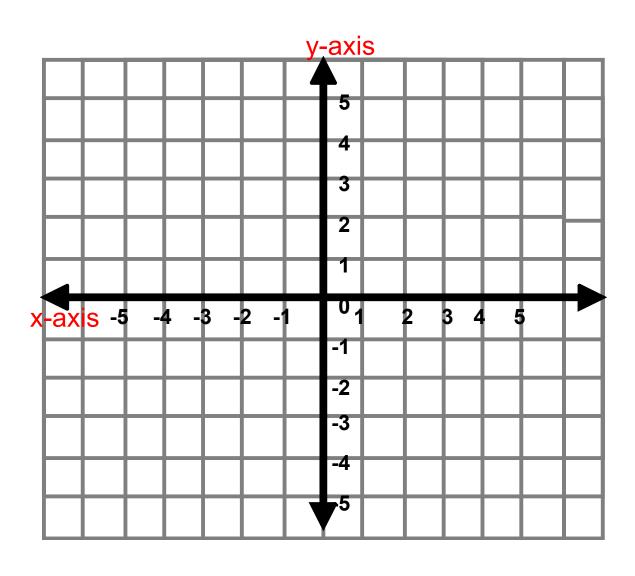


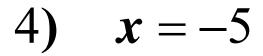


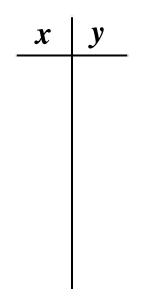


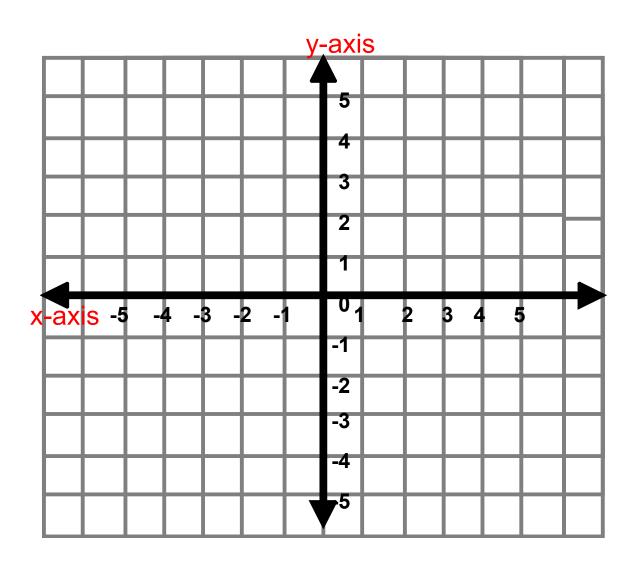
3)
$$y = -3$$







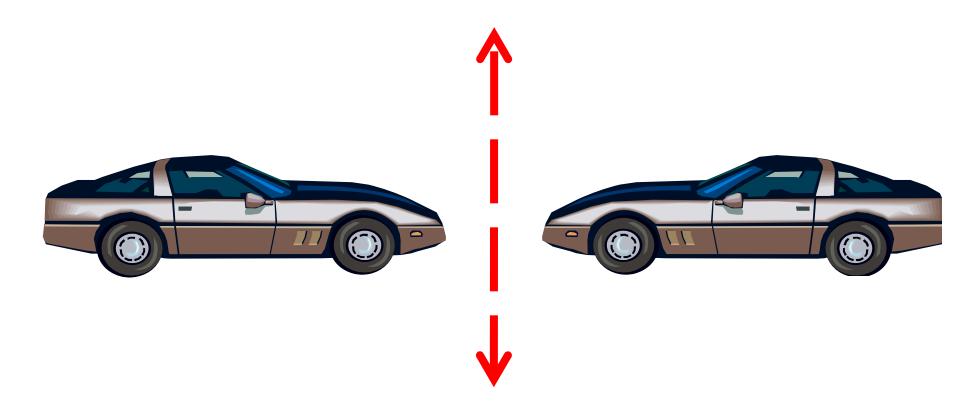


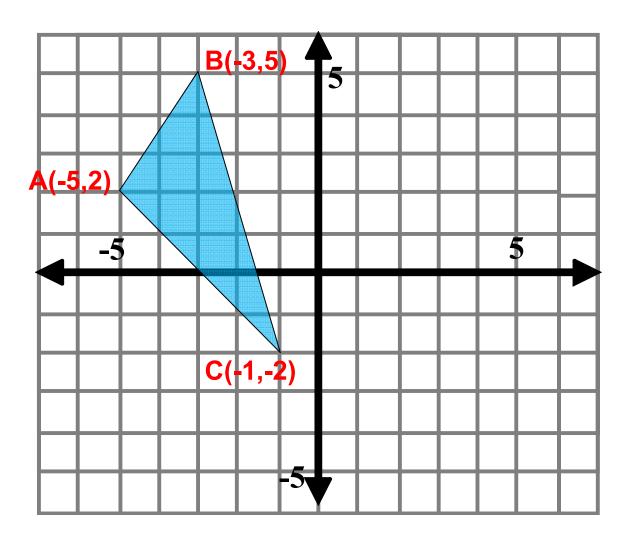


Vocabulary

Reflection

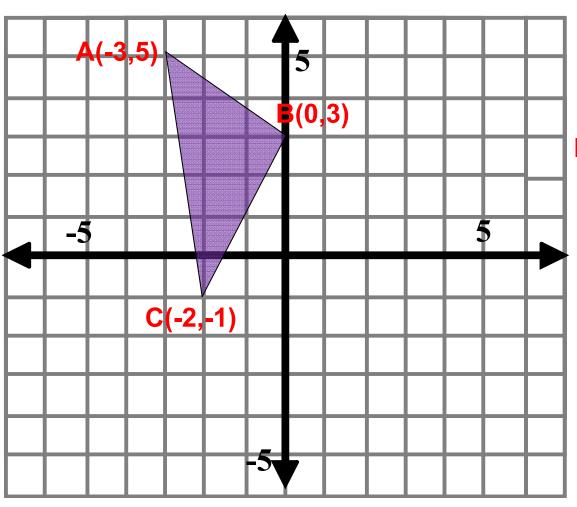
Mirror image of an object across a line or a point





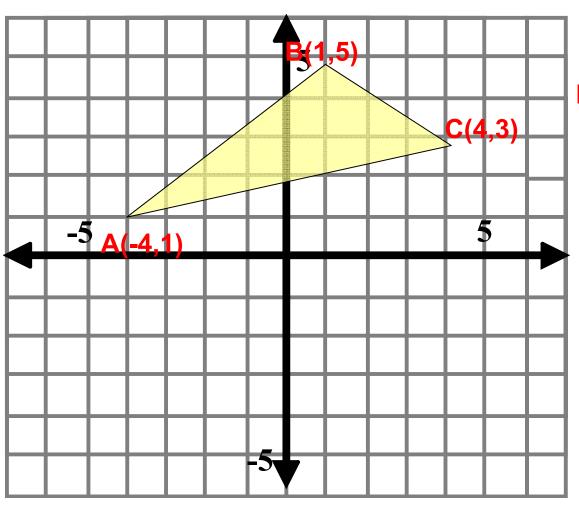
Rule:

Reflect over y-axis



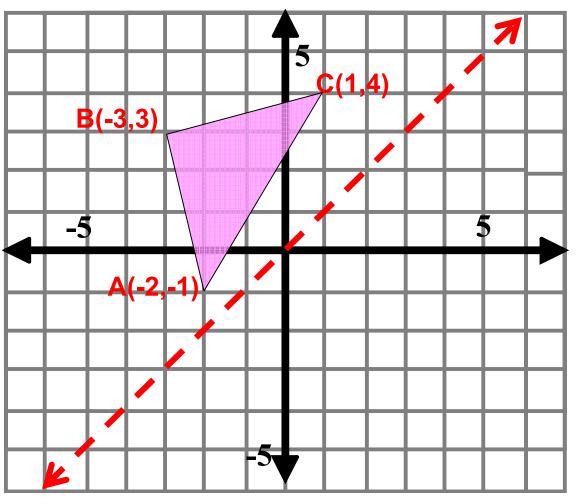
Rule:

Reflect over x=2



Rule:

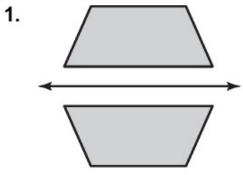
Reflect over x-axis



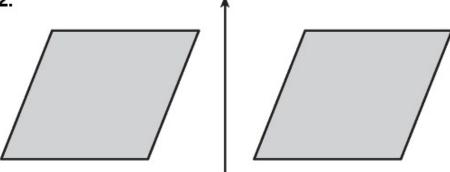
Rule: Reflect over y=x

Practice

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



2.



Practice

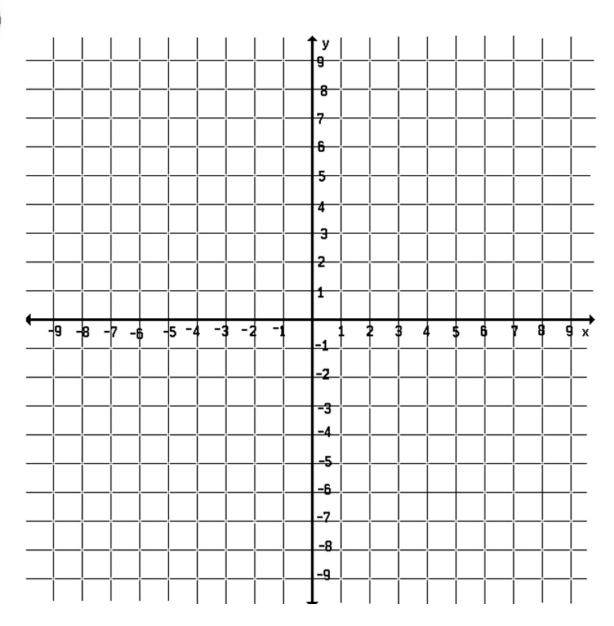
Draw the figure and its reflection in the x-axis. Identify the coordinates of the image.

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

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

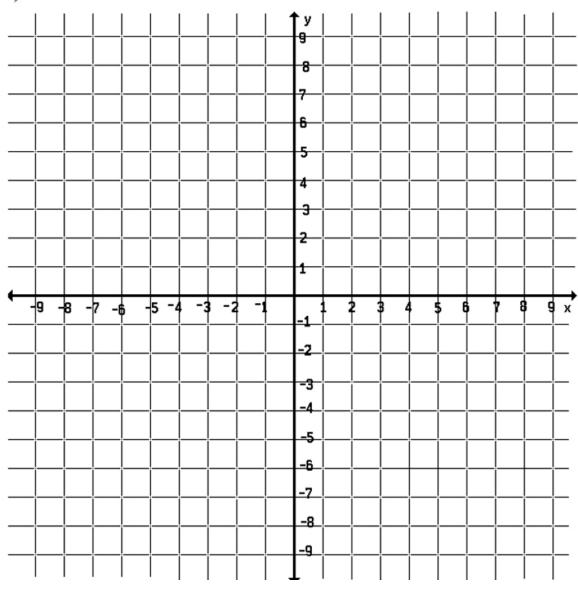
Draw the figure and its reflection in the x-axis. Identify the coordinates of the image.

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.

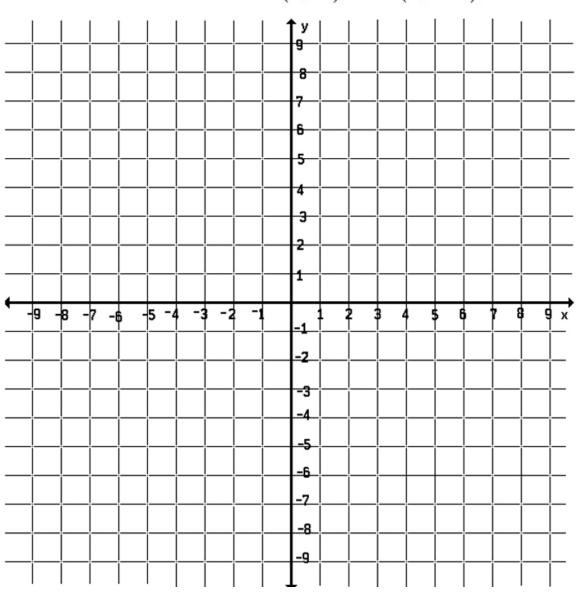
5. X(0, -1), Y(2, 3), Z(4, -2)



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.

