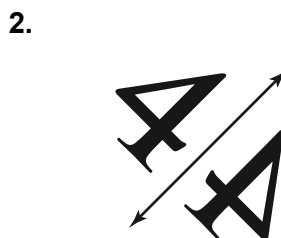
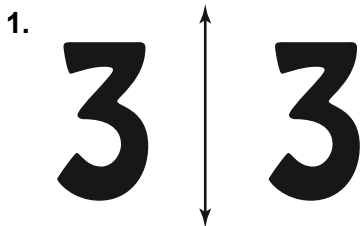


# 2.3

## Practice B

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



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

3.  $K(-3, 3), L(-2, 1), M(1, 2), N(2, 5)$       4.  $O(-2, -1), P(-1, -3), Q(1, -4), R(3, -1)$

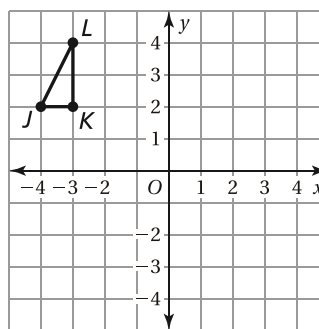
Draw the figure and its reflection in the  $y$ -axis. Identify the coordinates of the image.

5.  $B(2, -3), C(3, 1), D(5, 3), E(3, 0)$       6.  $G(-5, -5), H(-3, -1), I(-2, 4), J(-1, -1)$
7. What does the word “pop” spell when it is reflected in a horizontal line?

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

8.  $(0, 3) \rightarrow (0, -3)$       9.  $(1, 5) \rightarrow (-1, 5)$

10. Reflect the triangle in the  $x$ -axis. Then reflect the image in the  $y$ -axis. Graph the resulting triangle.



11.  $\triangle ABC$  has vertices  $A(-2, -1), B(4, 2), C(2, -2)$ .
- a. Reflect  $\triangle ABC$  in the  $x$ -axis. Then reflect  $\triangle A'B'C'$  in the  $y$ -axis. What are the coordinates of the resulting triangle?
- b. How are the  $x$ - and  $y$ -coordinates of the resulting triangle related to the  $x$ - and  $y$ -coordinates of  $\triangle ABC$ ?