## Standardized Test Prep

## **Multiple Choice**

For Exercises 1-5, choose the correct letter.

**1.** In the graph at the right, point *D* is reflected across the *y*-axis. What are the coordinates of its image?



$$\bigcirc$$
 (-3, -1)

$$\bigcirc$$
 (-3, 1)

**2.** The coordinates of the vertices of  $\triangle CDE$  are C(1, 4), D(3, 6), and E(7, 4). If the triangle is reflected over the line y = 3, what are the coordinates of the image of *D*?









- 3. What is true for an image and a preimage in a reflection?
  - A The image is larger than the preimage.
  - **B** The image is smaller than the preimage.
  - The image and the preimage have the same orientation.
  - The image and the preimage have different orientations.
- **4.** In the graph at the right, what is the line of reflection for  $\triangle XYZ$  and  $\triangle X'Y'Z'$ ?



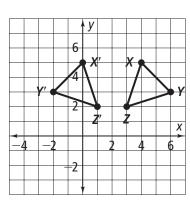
**5.** What is the image of A(3, -1) after a reflection, first across the line y = 3, and then across the line x = -1?



$$\bigcirc$$
  $(-5, -1)$ 

$$\mathbb{B}$$
 (3, -1)  $\mathbb{D}$  (1, -5)





## **Extended Response**

**6.** RSTU has coordinates R(0, 0), S(2, 3), T(6, 3), and U(4, 0). If the parallelogram is reflected over the line y = x, what will the coordinates of the image be?