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## 9-2 Standardized Test Prep <br> Reflections

## 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?
(A) $(3,-1)$
(C) $(-3,-1)$
(B) $(3,1)$
(D) $(-3,1)$
2. The coordinates of the vertices of $\triangle C D E$ 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 $D$ ?
(F) $(3,-6)$
(G) $(3,-3)$
(H) $(3,0)$
(I) $(3,9)$
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.
(C) The image and the preimage have the same orientation.
(D) The image and the preimage have different orientations.
4. In the graph at the right, what is the line of reflection for $\triangle X Y Z$ and $\triangle X^{\prime} Y^{\prime} Z^{\prime}$ ?
(F) the $x$-axis
(G) the $y$-axis
(H) $x=2$
(I) $y=2$
5. What is the image of $A(3,-1)$ after a reflection, first
across the line $y=3$, and then across the line $x=-1$ ?

(A) $(-5,7)$
(C) $(-5,-1)$
(B) $(3,-1)$
(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?
