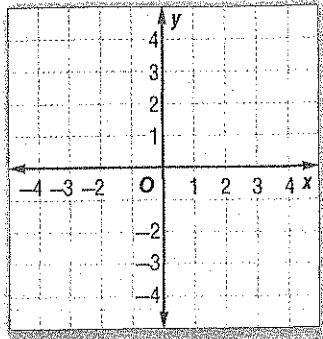


# Graph on the Coordinate Plane

## Guided Practice

1. Use a coordinate plane to represent Jasmine's stone garden. Graph points  $E(-1, -4)$  and  $F(-3\frac{1}{2}, 4)$ . Then reflect point  $E$  across the  $y$ -axis and point  $F$  across the  $x$ -axis. What is the shape of her stone garden? (Examples 1-5)



Show your work.

## Independent Practice

Graph and label each point on the coordinate plane to the right.  
(Examples 1 and 2)

1.  $T(0, 0)$

2.  $D(2, 1)$

3.  $K(-3.25, 3)$

4.  $N(0, -1\frac{1}{2})$

5.  $F(-4.5, 0)$

6.  $A(-3\frac{1}{2}, -3)$

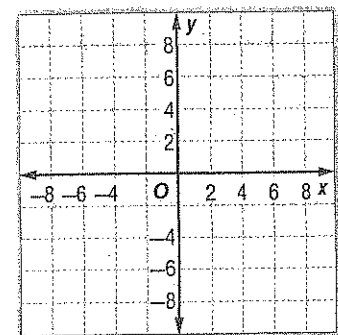
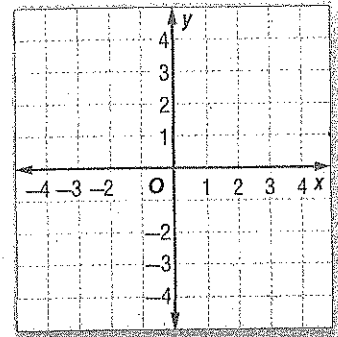
7.  $L(2.5, -3.5)$

8.  $S(4, 2\frac{1}{2})$

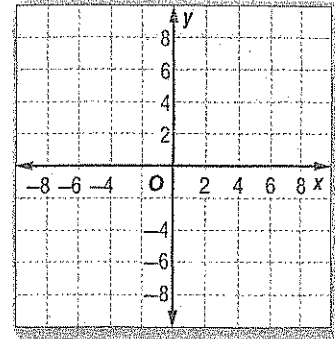
9. Graph  $U(3.5, -3)$  on the coordinate plane to the right. Then graph its reflection across the  $x$ -axis. (Example 3)

10. Graph  $B(-7, 6)$  on the coordinate plane on the right. Then graph its reflection across the  $x$ -axis. (Example 3)

11. Graph  $R(-2, 5)$  on the coordinate plane to the right. Then graph its reflection across the  $y$ -axis. (Example 4)



12. Amelia is drawing a map of the park. She graphs the entrance at  $(2, -3)$ . She reflects  $(2, -3)$  across the  $y$ -axis. Then Amelia reflects the new point across the  $x$ -axis. What figure is graphed on the map?  
(Example 5)



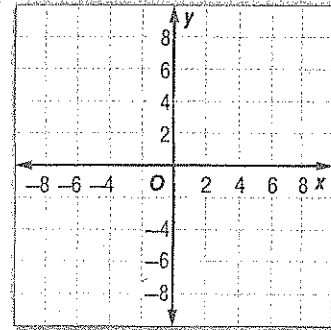
13. A point is reflected across the  $y$ -axis. The new point is located at  $(-4.25, -1.75)$ . Write the ordered pair that represents the original point.

14. **CCSS Model with Mathematics** A point is reflected across the  $x$ -axis. The new point is  $(-7.5, 6)$ . What is the distance between the two points?

### Standardized Test Practice

20. What are the coordinates of  $Y'$  after  $Y(-3.5, 5)$  is reflected across the  $x$ -axis?
- (A)  $(3.5, -5)$                       (C)  $(5, -3.5)$   
 (B)  $(-3.5, -5)$                     (D)  $(3.5, 5)$

32. Marcus is drawing a plan for his vegetable garden. He graphs one corner at  $(-7.5, 2)$  and one corner at  $(7.5, 2)$ . He reflects  $(-7.5, 2)$  across the  $x$ -axis. Then Marcus reflects the new point across the  $y$ -axis. What shape is the vegetable garden?



33. A point is reflected across the  $x$ -axis. The new point is located at  $(4.75, -2.25)$ . Write the ordered pair that represents the original point.
34. **CCSS Model with Mathematics** A point is reflected across the  $x$ -axis. The new point is  $(5, -3.5)$ . What is the distance between the two points?