

# Graphing Equations

**Directions** Solve for  $y$  to complete the table of values for each equation.

A.

$y = 3x - 1$	
$x$	$y$
-2	1.
-1	2.
0	3.
1	4.

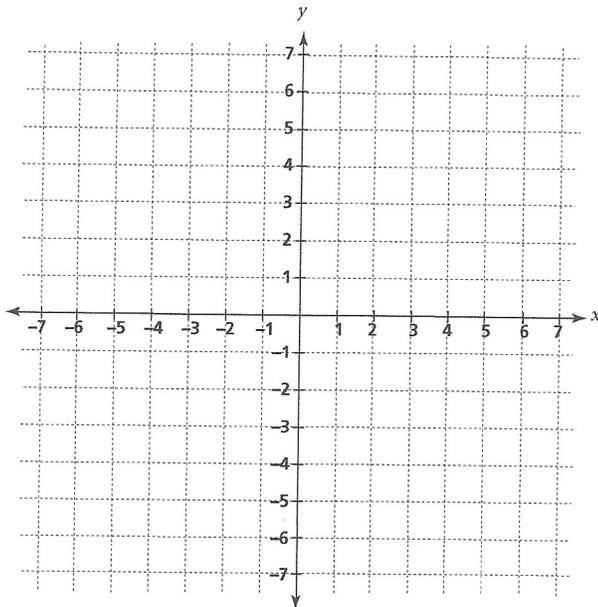
B.

$y = 2x - 2$	
$x$	$y$
-4	5.
-2	6.
0	7.
2	8.

C.

$y = x - 1$	
$x$	$y$
-3	9.
-1	10.
1	11.
3	12.

**Directions** Solve the problems. For help, view the graph.



13. Suppose a jogger runs 4 blocks north. Then she turns and runs 4 blocks east and stops. If the jogger's starting point is represented as point  $(0, 0)$  on a graph, what quadrant has the jogger stopped in? (Hint: on a map, north is up, south is down, west is left, and east is right.)
14. Suppose you plotted the following points on a graph:  $(4, 4)$ ,  $(-4, 4)$ ,  $(-4, -4)$ , and  $(4, -4)$ . Then suppose you connected the 4 points with straight lines. What figure would you get?
15. If a point moves on a graph, without changing direction, such that the  $y$ -value increases and the  $x$ -value stays the same, what can you say about the direction of the movement?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_