

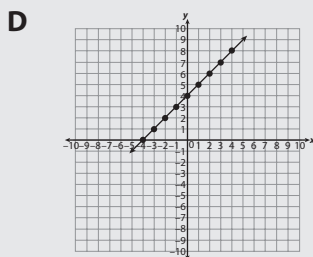
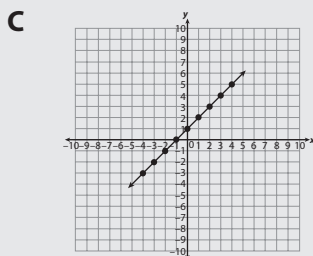
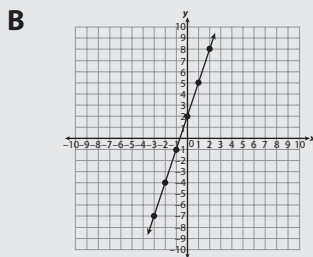
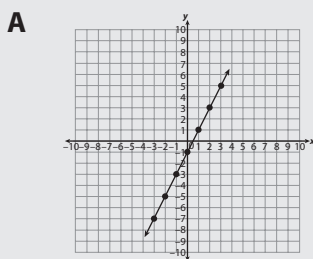
26 Graph Functions

D.4.1.1 D.4.1.2 D.4.1.3

Example

Which graph represents this function table?

x	-3	-1	2	4
y	-7	-3	3	7



Thinking It Through

Skim Look at the corresponding numbers in the function table *before* trying to solve this problem.

The numbers in the function table will be ordered pairs in the correct graph:

$$(-3, -7), (-1, -3), (2, 3), \text{ and } (4, 7)$$

Solve — *Test It: Eliminate Wrong Answers* Go through the answer choices to find which graph has the ordered pairs above. If any of the ordered pairs from the table do not match, the graph is incorrect.

Solve — *Draw It* You may have to extend some of the graphs to test them. Use a straightedge.

Graph A has all four of the ordered pairs from the function table, so *answer A* is correct.

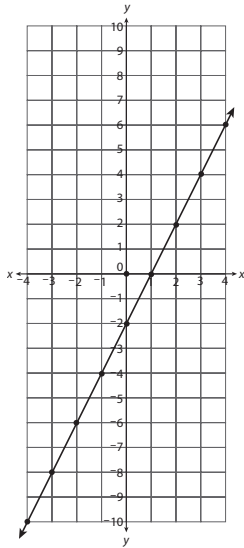
Review

- To graph a function, find the ordered pairs by finding the values of y for given values of x . The value of x is the first number in the ordered pair, and the value of y is the second number in the ordered pair.
- To graph a function given an equation, choose values for x and find the corresponding values of y .

Graph Functions

DIRECTIONS Read and solve each question. Then circle the letter of the best answer.

1. Which table represents the ordered pairs on the graph?



- A
- | | | | | |
|----------|-----|----|----|---|
| x | -10 | -6 | -2 | 4 |
| y | -4 | -2 | 0 | 3 |
- B
- | | | | | |
|----------|----|----|----|---|
| x | -4 | -2 | 0 | 2 |
| y | -8 | -4 | -2 | 2 |
- C
- | | | | | |
|----------|-----|----|----|---|
| x | -4 | -2 | 0 | 3 |
| y | -10 | -6 | -2 | 4 |
- D
- | | | | | |
|----------|----|----|----|---|
| x | -4 | -2 | 0 | 3 |
| y | -9 | -5 | -3 | 3 |

2. Which ordered pair is on the line of the function $y = 3x - 4$?

- A $(-4, -19)$ C $(3, -1)$
 B $(-2, -10)$ D $(5, 10)$



Substitute values for x to find y .

3. Which graph corresponds to the function $y = 3x + 1$?

