

# 4-6 Functions (Pages 226–231)

A **function** is a relation in which each element of the domain is paired with *exactly one* element of the range. Equations that are functions can be written in a form called **functional notation**,  $f(x)$  (read “ $f$  of  $x$ ”). In a function,  $x$  is an element of the domain and  $f(x)$  is the corresponding element in the range.

## Vertical Line Test

If each vertical line passes through no more than one point of the graph of a relation, then the relation is a function.

## Examples

- a. Is  $\{(1, 2), (1, 3)\}$  a function? Is  $\{(1, 4), (3, 2), (5, 4)\}$  a function?

1st relation: *not a function*

This relation has 1 paired with both 2 and 3.

2nd relation: *a function*

In this relation, each  $x$ -value is paired with no more than one  $y$ -value. A function can have a  $y$ -value paired with more than one  $x$ -value.

- b. If  $f(x) = 3x - 1$  and  $g(x) = 2x$ , find  $f(1)$  and  $g(3)$ .

$$f(x) = 3x - 1$$

$$f(1) = 3(1) - 1 \text{ or } 2$$

Replace  $x$  with 1.

$$g(x) = 2x$$

$$g(3) = 2(3) \text{ or } 6$$

Replace  $x$  with 3.

## Practice

Determine whether each relation is a function.

1.

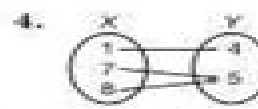
| $x$ | $y$ |
|-----|-----|
| -1  | 10  |
| -2  | 13  |
| -3  | 16  |

2.

| $x$ | $y$ |
|-----|-----|
| 2   | 0   |
| 2   | -1  |
| 3   | -4  |

3.

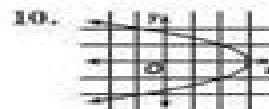
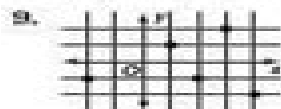
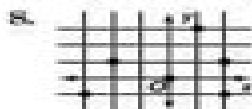
| $x$ | $y$ |
|-----|-----|
| 33  | 10  |
| 35  | 8   |
| 36  | 10  |



5.  $\{(7, -4), (6, 3), (5, 2)\}$

6.  $\{(15, 0), (15, -2)\}$

7.  $\{(0, 1), (2, 1), (0, 3)\}$



Given  $f(x) = -3x$  and  $g(x) = x - 5$ , find each value.

11.  $f(7)$

12.  $g(7)$

13.  $g(-8)$

14.  $f(-1)$

15.  $f(a)$

16.  $g(m)$

17.  $2[g(9)]$

18.  $3[f(2)]$

19. **Standardized Test Practice** Martha pays a flat \$50 a month for the use of her cell phone. She also pays \$0.30 for each minute that she talks over 6 hours. The cost of her phone bill can be represented by  $f(x) = 50 + 0.30x$ , where  $x$  is the number of minutes past 6 hours that she uses the phone. Evaluate  $f(60)$  to find the amount of her phone bill if she uses the phone for 7 hours.

A \$68.30

B \$68.00

C \$50.30

D \$18.00

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**G Orfield**



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