

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 $g(3)$.

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

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

Replace x with 1.

$$g(3) = 2(3)$$

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

Replace x with 3.

Practice

Determine whether each relation is a function.

1.

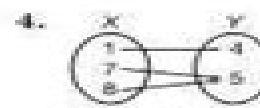
x	y
-1	10
-2	13
-3	16

2.

x	y
2	0
2	-1
3	-4

3.

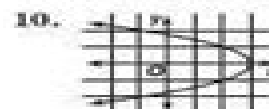
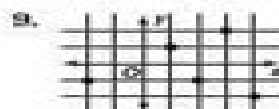
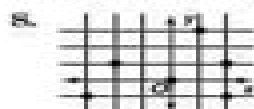
x	y
33	10
35	8
36	10



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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