

## 3.3 Practice A

In Exercises 1–3, evaluate the function when  $x = -2$ ,  $0$ , and  $5$ .

1.  $f(x) = x - 3$                       2.  $g(x) = -2x$                       3.  $h(x) = 5 - 3x$

4. Let  $c(t)$  be the number of customers in a department store  $t$  hours after 8 A.M.

Explain the meaning of each statement.

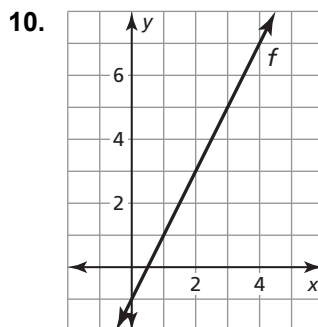
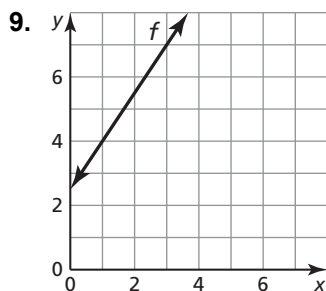
a.  $c(0) = 10$                       b.  $c(6) = c(7)$                       c.  $c(k) = 0$                       d.  $c(4) > c(3)$

In Exercises 5–8, find the value of  $x$  so that the function has the given value.

5.  $f(x) = 6x$ ;  $f(x) = -24$                       6.  $g(x) = -10x$ ;  $g(x) = 15$

7.  $f(x) = 3x - 5$ ;  $f(x) = 4$                       8.  $h(x) = 14 - 8x$ ;  $h(x) = -2$

In Exercises 9 and 10, find the value of  $x$  so that  $f(x) = 7$ .



11. The function  $C(x) = 29x + 54.5$  represents the cost (in dollars) of cable for  $x$  months, including the \$54.50 installation fee.

- a. How much would you have spent on cable after 6 months?  
b. How many months of cable service can you have for \$344.50?

In Exercises 12–15, graph the linear function.

12.  $r(x) = 2$                       13.  $q(x) = -3x$   
14.  $g(x) = \frac{2}{5}x - 3$                       15.  $j(x) = -\frac{1}{3}x + 5$

16. Let  $f$  be a function. Use each statement to find the coordinates of a point on the graph of  $f$ .

- a.  $f(-2)$  is equal to 7.                      b. A solution of the equation  $f(t) = 4$  is 2.