Rewrite each function using function notation.

1.
$$y = 2x + 7$$
 2. $s = 5t$

3.
$$y = ax^2 + bx + c$$

4. $y = -2|x + 6|$

Evaluate each of the following expressions.

5.
$$x + 5$$
 when $x = -2$
6. $2p - 8$ when $p = 4$

7.
$$f(x) = 7x - 8$$
 when $x = 3$
8. $f(x) = x^2$ when $x = 5$

Solve each equation.

9.
$$r - 13 = 7$$

10. $\frac{x}{3} + 4 = 6$

11. 4m - 13 = 51 12. -4v + 8 = 12

13.
$$2y + 6 = -4y + 18$$
 14. $2(2c - 4) = -2(c + 10)$

Substitute f(x) and solve for x.

15.
$$f(x) = 2x + 12$$
 when $f(x) = 60$
16. $f(x) = -5x$ when $f(x) = 120$

17.
$$f(x) = 3x + 25$$
 when $f(x) = 178$
18. $f(x) = x - 200$ when $f(x) = 175$

19.
$$f(x) = -4x + 52$$
 when $f(x) = 486$
20. $f(x) = 4x - 16$ when $f(x) = 2x + 12$

Solve each function for the given input value.

The function P(t) = 9t represents the total amount of money (in dollars) that a Hoover High School student makes working at Zaxby's as a function of time (in hours).

21. *P*(5) 22. *P*(6.5)

The function H(t) = -15t + 372 represents the height of an elevator that starts at the observation deck of Vulcan and *descends* without stopping at a *constant rate* of 15 feet per second.

23. *H*(4) 24. *H*(5.5)