Name_____ Date _____

3.3 Practice B

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

1. $f(x) = 1.5x + 1$ **2.** $g(x) = 11 - 3x + 2$ **3.** $h(x) = -3 - x - 2$

4. Let $g(x)$ be the percent of your friends with a landline phone x years after 2000. Explain the meaning of each statement.

a. $g(0) = 100$ **b.** $g(5) = g(6)$

c. $g(10) = m$ **d.** $g(11) > g(12)$

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

5. $f(x) = 8x - 7; f(x) = 17$ **6.** $g(x) = -4x + 7; g(x) = 27$

7. $f(x) = \frac{1}{3}x - 1; f(x) = 9$ **8.** $h(x) = 6 - \frac{2}{3}x; h(x) = -2$

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

9.

10.

In Exercises 11–14, graph the linear function.

11. $h(x) = -\frac{3}{2}x + 4$ **12.** $p(x) = \frac{1}{4}x - 1$

13. $v(x) = -5 + 2x$ **14.** $k(x) = 4 - 3x$

15. The function $C(x) = 35x + 75$ represents the labor cost (in dollars) for Bob's Auto Repair to replace your alternator, where x is the number of hours. The table shows sample labor costs from its main competitor, Budget Auto Repair. The alternator is estimated to take 5 hours of labor. Which company would you hire? Explain.

Hours	1	2	3
Cost	$90	$130	$170