# 5 Writing Linear Equations

TEXAS



**Before**

In previous chapters, you learned the following skills, which you'll use in Chapter 5: evaluating functions and finding the slopes and $y$-intercepts of lines.

## Prerequisite Skills

### VOCABULARY CHECK

**Copy and complete the statement.**

1. In the equation $y = mx + b$, the value of $m$ is the __?__ of the graph of the equation.
2. In the equation $y = mx + b$, the value of $b$ is the __?__ of the graph of the equation.
3. Two lines are __?__ if their slopes are equal.

### SKILLS CHECK

**Find the slope of the line that passes through the points.**
*(Review p. 235 for 5.1–5.6.)*

4. $(4, 5), (2, 3)$
5. $(0, -6), (8, 0)$
6. $(0, 0), (-1, 2)$

**Identify the slope and the $y$-intercept of the line with the equation.**
*(Review p. 244 for 5.1–5.6.)*

7. $y = x + 1$
8. $y = \frac{3}{4}x - 6$
9. $y = -\frac{2}{5}x - 2$

**Evaluate the function when $x = -2$, 0, and 4.** *(Review p. 262 for 5.7.)*

10. $f(x) = x - 10$
11. $f(x) = 2x + 4$
12. $f(x) = -5x - 7$

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