

# 5 Writing Linear Equations



A.6.D

5.1 Write Linear Equations in Slope-Intercept Form

A.7.A

5.2 Use Linear Equations in Slope-Intercept Form

A.5.A

5.3 Write Linear Equations in Point-Slope Form

A.1.D

5.4 Write Linear Equations in Standard Form

A.6.D

5.5 Write Equations of Parallel and Perpendicular Lines

A.2.D

5.6 Fit a Line to Data

A.1.E

5.7 Predict with Linear Models

## 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.  $f(x) = -5x - 7$



TEXAS

@HomeTutor

Prerequisite skills practice at [classzone.com](http://classzone.com)