

Key Vocabulary

• *y*-intercept, *p. 225*

• slope, p. 235

• slope-intercept form, p. 244

Recall that the graph of an equation in slope-intercept form, y = mx + b, is a line with a slope of m and a y-intercept of b. You can use this form to write an equation of a line if you know its slope and y-intercept.

Write an equation of the line with a slope of -2 and a y-intercept of 5.

Use slope and y-intercept to write an equation

y = mx + b Write slope-intercept form.

EXAMPLE 1

y = -x + 5 Substitute -2 for *m* and 5 for *b*.

