

**GUIDED PRACTICE** for Examples 4 and 5

4. **WHAT IF?** In Example 4, suppose a second company charges \$250 for the first 1000 stickers. The cost of each additional 1000 stickers is \$60.
- Write an equation that gives the total cost (in dollars) of the stickers as a function of the number (in thousands) of stickers ordered.
 - Which company would charge you less for 9000 stickers?
5. **MAILING COSTS** The table shows the cost (in dollars) of sending a single piece of first class mail for different weights. Can the situation be modeled by a linear equation? *Explain*. If possible, write an equation that gives the cost of sending a piece of mail as a function of its weight (in ounces).

Weight (ounces)	1	4	5	10	12
Cost (dollars)	0.37	1.06	1.29	2.44	2.90

5.3 EXERCISES

HOMEWORK KEY

= **WORKED-OUT SOLUTIONS**
on p. WS1 For Exs. 3 and 39

= **TAKS PRACTICE AND REASONING**
Exs. 12, 30–34, 38, 41, 45, and 46

SKILL PRACTICE

- VOCABULARY** Identify the slope of the line given by the equation $y - 5 = -2(x + 5)$. Then identify one point on the line.
- WRITING** Describe the steps you would take to write an equation in point-slope form of the line that passes through the points (3, -2) and (4, 5).

EXAMPLE 1

on p. 302
for Exs. 3–13

WRITING EQUATIONS Write an equation in point-slope form of the line that passes through the given point and has the given slope m .

- (2, 1), $m = 2$
- (5, -1), $m = -2$
- (-11, -3), $m = -9$
- (3, 5), $m = -1$
- (-8, 2), $m = 5$
- (-3, -9), $m = \frac{7}{3}$
- (7, -1), $m = -6$
- (-6, 6), $m = \frac{3}{2}$
- (5, -12), $m = -\frac{2}{5}$

12. **TAKS REASONING** Which equation represents the line that passes through the point (-6, 2) and has a slope of -1?

(A) $y + 2 = -(x + 6)$

(B) $y + 2 = -(x - 6)$

(C) $y - 2 = -(x + 6)$

(D) $y + 1 = -2(x + 6)$

13. **ERROR ANALYSIS** Describe and correct the error in writing an equation of the line that passes through the point (1, -5) and has a slope of -2.

$y - 5 = -2(x - 1)$