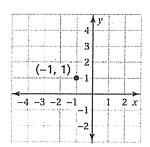
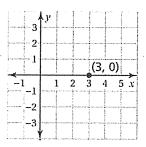
## 4.7 Practice AB

Jse the point-slope form to write an equation of the line with the given slope that passes through the given point.

1. 
$$m = 3$$



2. 
$$m = -\frac{2}{3}$$



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

3. 
$$(4, -2)$$
;  $m = \frac{1}{4}$ 

**4.** 
$$(-3, 5)$$
;  $m = -\frac{4}{3}$ 

**5.** 
$$(-1, -5)$$
;  $m = 4$ 

Write in slope-intercept form an equation of the line that passes through the given points.

6. 
$$(-3, -4), (6, -1)$$

- **8.** After a laptop is purchased, its value decreases by \$150 each year. After 2 years, the laptop is worth \$600.
- **a.** Write an equation that represents the value V (in dollars) of the laptop x years after it is purchased.
- **b.** What was the original value of the laptop?
- c. What is the value of the laptop 5 years after it is purchased?

Write in point-slope form an equation of the line that passes through the given point and has the given slope. 9. (-6, 3);  $m = \frac{1}{3}$  10. (-2, 8); m = -3

Write in slope-intercept form an equation of the line that passes through the given points.

**12.** 
$$(-5, -8), (10, 4)$$

**13.** 
$$(-6, 4), (6, 0)$$

- **14.** You are pulling a kite back to the ground at a rate of 2 feet per second. After 4 seconds, the kite is 16 feet above the ground.
- **a.** Write an equation that represents the height y (in feet) above the ground after x seconds.
- b. At what height was the kite when you started pulling it in?
- c. When does the kite touch the ground?