

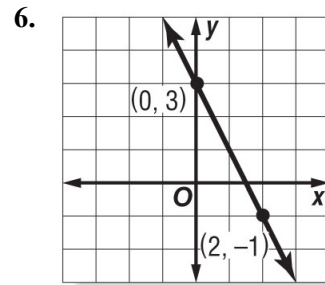
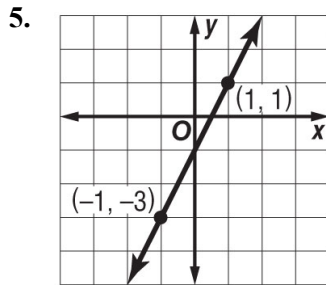
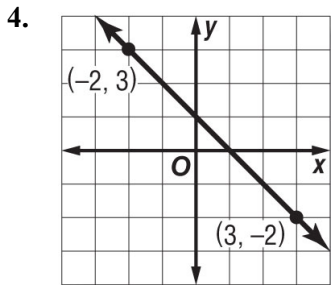
## 4-1 Skills Practice

### Writing Equations in Slope-Intercept Form

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

1.  $(1, 9)$ ; slope 4                      2.  $(4, 2)$ ; slope  $-2$                       3.  $(2, -2)$ ; slope 3

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

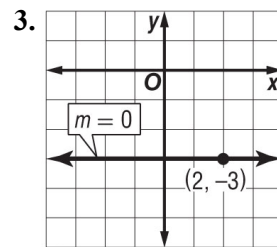
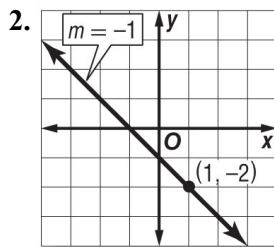
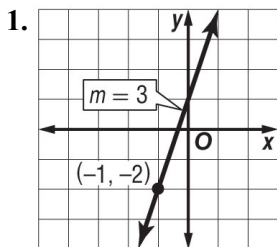


7. **INVESTING** The price of a share of stock in XYZ Corporation was \$74 two weeks ago. Seven weeks ago, the price was \$59 a share.
- Write a linear equation to find the price  $p$  of a share of XYZ Corporation stock  $w$  weeks from now.
  - Estimate the price of a share of stock five weeks ago.

## 4-2 Skills Practice

### Writing Equations in Standard and Slope-Intercept Form

Write an equation in point-slope form for the line that passes through each point with the given slope.



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

Write each equation in standard form.

7.  $y + 1 = x + 2$

8.  $y + 9 = -3(x - 2)$

9.  $y - 7 = 4(x + 4)$

10.  $y - 4 = -(x - 1)$

11.  $y - 2 = -\frac{1}{2}(x - 4)$

12.  $y + 11 = \frac{1}{3}(x + 3)$

Write each equation in slope-intercept form.

13.  $y - 4 = 3(x - 2)$

14.  $y + 2 = -(x + 4)$

15.  $y - 6 = -2(x + 2)$

16.  $y - 2 = \frac{1}{2}(x + 6)$

17.  $y + 1 = -\frac{1}{3}(x + 9)$

18.  $y - \frac{1}{2} = x + \frac{1}{2}$

## 4-3 Skills Practice

### *Parallel and Perpendicular Lines*

Write an equation in slope-intercept form for the line that passes through the given point and is parallel to the graph of the given equation.

1.  $(3, 2), y = 3x + 4$

2.  $(-1, -2), y = -3x + 5$

3.  $(-1, 1), y = x - 4$

4.  $(1, -3), y = -4x - 1$

5.  $(-4, 2), y = x + 3$

6.  $(-4, 3), y = \frac{1}{2}x - 6$

Write an equation in slope-intercept form for the line that passes through the given point and is perpendicular to the graph of the given equation.

7.  $(-3, -2), y = x + 2$

8.  $(4, -1), y = 2x - 4$

9.  $(-1, -6), x + 3y = 6$

10.  $(-4, 5), y = -4x - 1$

11.  $(-2, 3), y = \frac{1}{4}x - 4$

12.  $(0, 0), y = \frac{1}{2}x - 1$