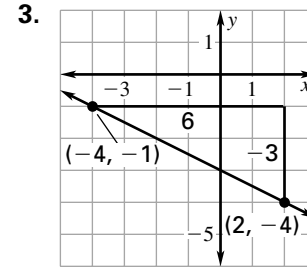
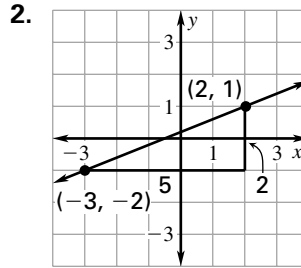
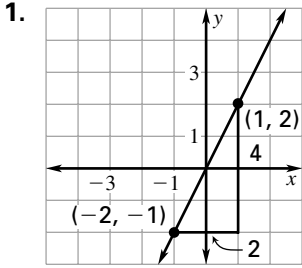


Practice B

For use with pages 300–306

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

4. $(-3, 24), m = -2$

5. $(-4, -2), m = -5$

6. $(0, -3), m = \frac{2}{3}$

7. $(6, -5), m = -4$

8. $(-7, 6), m = 0$

9. $(-3, -5), m = 6$

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

10. $(0, 5), (1, 3)$

11. $(2, 4), (6, 2)$

12. $(3, 0), (0, -3)$

13. $(6, -2), (10, 1)$

14. $(-2, -3), (4, 1)$

15. $(1, 3), (-5, -3)$

16. $(-5, -7), (-3, -10)$

17. $(6, 11), (-1, 2)$

18. $(-3, -8), (2, 4)$

Rewrite the equation in slope-intercept form.

19. $y + 4 = 5(x + 2)$

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

21. $y - 5 = 3(x - 4)$

22. $y + 11 = -3(x - 9)$

23. $y + 6 = \frac{1}{2}(x - 12)$

24. $y - \frac{2}{3} = 4\left(x + \frac{5}{12}\right)$

Classified Ads In Exercises 25 and 26, use the following information.

It costs \$1.50 per day to place a one-line ad in the classifieds plus a flat service fee. One day costs \$3.50 and four days costs \$8.00.

25. Write a linear equation that gives the cost in dollars, y , in terms of the number of days the ad appears, x .

26. Find the cost of a six-day ad.

Travel In Exercises 27 and 28, use the following information.

You are flying from Houston to Chicago. You leave Houston at 7:30 A.M. At 8:35 A.M. you fly over Little Rock, a distance of 455 miles.

27. Write a linear equation that gives the distance in miles, y , in terms of time, x . Let x represent the number of minutes since 7:30 A.M.

28. Approximately what time will you arrive in Chicago if it is 950 miles from Houston?