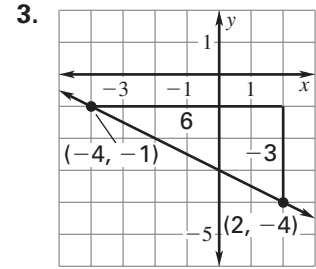
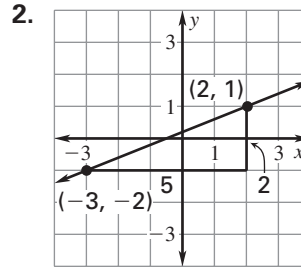
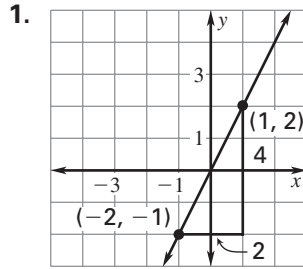


Practice B

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. $(-3, -5), m = 6$ |
| 10. $(-12, 1), m = -6$ | 11. $(-14, 21), m = -\frac{1}{3}$ | 12. $(16, 4), m = -\frac{2}{3}$ |

Rewrite the equation in slope-intercept form.

- | | | |
|--------------------------|-----------------------------------|---|
| 13. $y - 2 = 1(x + 3)$ | 14. $y + 9 = 4(x - 3)$ | 15. $y - \frac{1}{2} = 2(x - 6)$ |
| 16. $y + 4 = 5(x + 2)$ | 17. $y - 3 = -2(x + 1)$ | 18. $y - 5 = 3(x - 4)$ |
| 19. $y + 11 = -3(x - 9)$ | 20. $y + 6 = \frac{1}{2}(x - 12)$ | 21. $y - \frac{2}{3} = 4(x + \frac{5}{12})$ |

Classified Ads In Exercises 22 and 23, 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.

22. Write a linear equation that gives the cost in dollars, y , in terms of the number of days the ad appears, x .
23. Find the cost of a six-day ad.

Travel In Exercises 24 and 25, 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.

24. 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.
25. Approximately what time will you arrive in Chicago if it is 950 miles from Houston?