

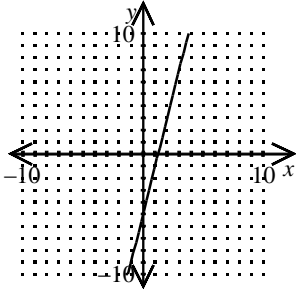
1. Find the slope and the y-intercept for the graph of the line with the equation  $y = -\frac{1}{2}x - 3$ .
2. Find the slope and the y-intercept for the graph of the line with the equation  $y = \frac{7}{8}x + 5$ .
3. Find the slope and the y-intercept for the graph of the line with the equation  $y = -\frac{4}{9}x + 9$ .
4. Find the slope and the y-intercept for the graph of the line with the equation  $y = 3x + 4$ .
5. Find the slope and the y-intercept for the graph of the line with the equation  $y = -\frac{4}{3}x - 8$ .

Without graphing, determine the slope and the y-intercept:

6.  $y = 5x + 5$
7.  $y = -5x - 6$
8.  $y = -x - 4$
9.  $y = -2x - 3$
10.  $y = 3x - 5$

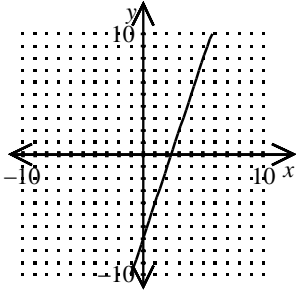
Write an equation in slope-intercept form for the line graphed.

11.



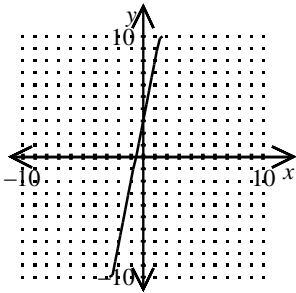
- [A]  $y = -4x + 5$       [B]  $y = 4x - 5$       [C]  $y = -5x + 4$       [D]  $x = 4y - 5$

12.



- [A]  $y = 3x - 7$       [B]  $x = 3y - 7$       [C]  $y = -7x + 3$       [D]  $y = -3x + 7$

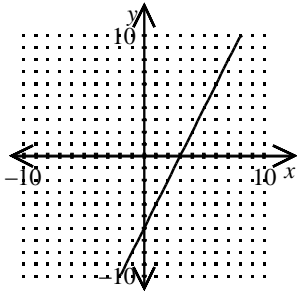
13.



- [A]  $y = 5x + 3$       [B]  $y = -5x - 3$       [C]  $y = 3x + 5$       [D]  $x = 5y + 3$

Write an equation in slope-intercept form for the line graphed.

14.



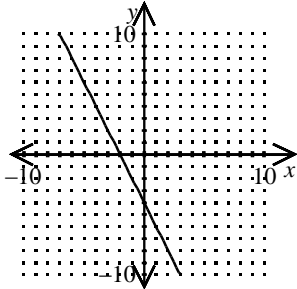
[A]  $x = 2y - 6$

[B]  $y = 2x - 6$

[C]  $y = -2x + 6$

[D]  $y = -6x + 2$

15.



[A]  $y = 2x + 4$

[B]  $x = -2y - 4$

[C]  $y = -2x - 4$

[D]  $y = -4x - 2$

Write an equation in slope-intercept form for the line that contains the given points.

16.  $(-8, 3)$  and  $(-5, 7)$

17.  $(-4, 7)$  and  $(-3, 9)$

18.  $(-4, 6)$  and  $(-2, 9)$

19.  $(-6, 3)$  and  $(-4, 6)$

20.  $(-3, 4)$  and  $(-1, 7)$

21.  $(-8, 6)$  and  $(-6, 9)$

Write an equation in slope-intercept form for the line that contains the given points.

22.  $b_{-7, 3g}$  and  $b_{-3, 8g}$

23.  $b_{-5, 4g}$  and  $b_{-2, 8g}$

24.  $b_{-7, 2g}$  and  $b_{-4, 6g}$

25.  $b_{-3, 5g}$  and  $b_{-1, 8g}$

26. An editor gets a \$710 raise each year. Her starting salary is \$57,500. Write a linear equation which models her income in terms of how many years she has worked at the company.

27. A family of five buys a bag of jelly beans. Each member eats exactly 10 jelly beans per day. The bag starts with 395 beans in it. Write a linear equation which models the number of jelly beans left in the bag in terms of the days that have passed.

28. A man decides to take out \$180 per month from his savings account. He has \$10,758 in his account at the beginning. Write a linear equation which models the amount in the savings account in terms of the number of months he withdraws money.

29. An apartment lease states that the rent will go up \$70 each year. The rent for the first year is \$820. Write a linear equation which models the rent in terms of the number of years the tenants have lived there.

30. An editor gets a \$1,490 raise each year. Her starting salary is \$27,600. Write a linear equation which models her income in terms of how many years she has worked at the company.

31. Which is the slope of a line that is perpendicular to the graph of  $y = -2x - \frac{1}{8}$ ?

[A]  $\frac{1}{2}$

[B] 2

[C]  $-\frac{1}{2}$

[D] -2

32. Which is the slope of a line that is perpendicular to the graph of  $y = x - \frac{3}{4}$ ?
- [A] 1                      [B] 0                      [C] undefined                      [D] -1
33. Which is the slope of a line that is perpendicular to the graph of  $y = -\frac{1}{5}x - 7$ ?
- [A]  $-\frac{1}{5}$                       [B] -5                      [C] 5                      [D]  $\frac{1}{5}$
34. Which is the slope of a line that is perpendicular to the graph of  $y = x + \frac{1}{3}$ ?
- [A] 1                      [B] 0                      [C] -1                      [D] undefined
35. Which is the slope of a line that is perpendicular to the graph of  $y = \frac{1}{3}x - 2$ ?
- [A]  $\frac{1}{3}$                       [B]  $-\frac{1}{3}$                       [C] 3                      [D] -3
36. Which is the slope of a line parallel to the line  $5x + y = 9$ ?
- [A] -5                      [B]  $\frac{1}{5}$                       [C]  $-\frac{1}{5}$                       [D] 5
37. Which is the slope of a line parallel to the line  $3x - 2y = 8$ ?
- [A]  $\frac{3}{2}$                       [B]  $-\frac{3}{2}$                       [C]  $-\frac{2}{3}$                       [D]  $\frac{2}{3}$
38. Which is the slope of a line parallel to the line  $2x - 3y = 6$ ?
- [A]  $-\frac{2}{3}$                       [B]  $-\frac{3}{2}$                       [C]  $\frac{3}{2}$                       [D]  $\frac{2}{3}$
39. Which is the slope of a line parallel to the line  $4x + 2y = 7$ ?
- [A]  $\frac{1}{2}$                       [B] -2                      [C] 2                      [D]  $-\frac{1}{2}$

40. Which is the slope of a line parallel to the line  $3x + 4y = 5$ ?
- [A]  $-\frac{4}{3}$                       [B]  $\frac{3}{4}$                       [C]  $\frac{4}{3}$                       [D]  $-\frac{3}{4}$
41. What is the equation of the line perpendicular to the line with zero slope passing through the point  $(8, -6)$ ?
42. What is the equation of the line perpendicular to the line with undefined slope passing through the point  $(-7, -8)$ ?
43. What is the equation of the line perpendicular to the line with undefined slope passing through the point  $(-6, 5)$ ?
44. What is the equation of the line perpendicular to the line with zero slope passing through the point  $(-2, -7)$ ?
45. What is the equation of the line perpendicular to the line with zero slope passing through the point  $(-9, 3)$ ?
46. What is the equation of the line perpendicular to the line with undefined slope passing through the point  $(-5, 4)$ ?
47. What is the equation of the line perpendicular to the line with zero slope passing through the point  $(-3, 9)$ ?
48. What is the equation of the line perpendicular to the line with undefined slope passing through the point  $(4, -6)$ ?
49. What is the equation of the line perpendicular to the line with undefined slope passing through the point  $(-7, 5)$ ?
50. What is the equation of the line perpendicular to the line with zero slope passing through the point  $(6, 7)$ ?

51. Find the slope of the line perpendicular to the line  $y = 3x - 5$ .
52. Find the slope of the line parallel to the line  $y = -6x - 3$ .
53. Find the slope of the line perpendicular to the line  $y = -5x - 4$ .
54. Find the slope of the line parallel to the line  $y = -3x + 2$ .
55. Find the slope of the line perpendicular to the line  $y = 4x - 7$ .
56. Find the slope of the line parallel to the line  $y = x + 3$ .
57. Find the slope of the line perpendicular to the line  $y = -2x + 3$ .
58. Find the slope of the line parallel to the line  $y = -2x - 7$ .
59. Find the slope of the line perpendicular to the line  $y = 7x - 6$ .
60. Find the slope of the line parallel to the line  $y = 5x - 2$ .