

Write the equation in slope-intercept form.

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Writing Linear Equations

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Write the slope-intercept form of the equation of each line.

11.  $3x + 2y = 18$

$$y = -\frac{3}{2}x + 9$$

12.  $4x - 3y = 12$

$$y = \frac{4}{3}x - 4$$

13.  $5x + 2y = 10$

$$y = -\frac{5}{2}x + 5$$

14.  $x - 2y = 8$

$$y = \frac{1}{2}x - 4$$

15.  $2x + 3y = 6$

$$y = -\frac{2}{3}x + 2$$

16.  $3x - 4y = 12$

$$y = \frac{3}{4}x - 3$$

17.  $4x + 5y = 20$

$$y = -\frac{4}{5}x + 4$$

18.  $5x - 6y = 30$

$$y = \frac{5}{6}x - 5$$

Write the point-slope form of the equation of the line through the given point with the given slope.

19. through  $(2, 3)$ , slope = 4

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

20. through  $(1, 1)$ , slope = 2

$$y - 1 = 2(x - 1)$$

21. through  $(-1, 2)$ , slope = -3

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

22. through  $(3, 4)$ , slope =  $\frac{1}{2}$

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

$$y - 4 = -3(x + 1)$$

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