

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. $5x + 2y = 1$

$$y = -\frac{5}{2}x + \frac{1}{2}$$

14. $x - 2y = 8$

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

15. $4x + 3y = 12$

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

16. $2x - 3y = 6$

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

17. $3x + 4y = 12$

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

18. $5x + 2y = 10$

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

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 $(2, 4)$, slope = $\frac{1}{2}$

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

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

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