

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. $2x + 3y = 6$

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

16. $3x - 4y = 12$

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

17. $4x + 5y = 20$

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

18. $6x - 2y = 18$

$$y = 3x - 9$$

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

19. through $(2, 5)$, slope = 3

$$y - 5 = 3(x - 2)$$

20. through $(3, 10)$, slope = 2

$$y - 10 = 2(x - 3)$$

21. through $(-1, 3)$, slope = -4

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

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

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

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

$$y - 10 = 2(x - 3)$$