

## Writing Equations of Parallel and Perpendicular Lines

Period \_\_\_\_\_

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**Write the slope-intercept form of the equation of the line described.**1) through:  $(2, 2)$ , parallel to  $y = x + 4$ 2) through:  $(4, 3)$ , parallel to  $x = 0$ 3) through:  $(2, -4)$ , parallel to  $y = 3x + 2$ 4) through:  $(2, -1)$ , parallel to  $y = -\frac{2}{5}x + 3$ 5) through:  $(1, -5)$ , perp. to  $y = \frac{1}{8}x + 2$ 6) through:  $(4, -1)$ , perp. to  $y = x + 2$

7) through:  $(-5, 5)$ , perp. to  $y = \frac{5}{9}x - 4$

8) through:  $(3, 4)$ , perp. to  $y = -2x - 4$

**Write the standard form of the equation of the line described.**

9) through:  $(4, 4)$ , parallel to  $y = -6x + 5$

10) through:  $(-5, 5)$ , parallel to  $y = -3x + 3$

11) through:  $(3, -2)$ , perp. to  $y = 5x + 4$

12) through:  $(3, 1)$ , perp. to  $y = -\frac{2}{3}x + 4$

**Write the standard form of the equation of each line.**

13)  $y = 3x + 1$

14)  $y = -\frac{9}{5}x + 3$