

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 $y = -2x - 4$

Slope-Intercept

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