

# Parallel and Perpendicular Lines

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**Write the slope-intercept form of the equation of the line described.**

1) through:  $(-2, 5)$ , parallel to  $y = -2x - 4$

2) through:  $(-4, 1)$ , parallel to  $x = 0$

3) through:  $(4, -2)$ , parallel to  $y = -x - 4$

4) through:  $(-2, 0)$ , parallel to  $y = 2x - 4$

5) through:  $(-4, 2)$ , parallel to  $y = -\frac{2}{3}x + 2$

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

7) through:  $(-1, -1)$ , perp. to  $y = -\frac{1}{6}x - 5$

8) through:  $(5, -4)$ , perp. to  $y = \frac{5}{8}x - 4$

9) through:  $(4, 3)$ , perp. to  $y = -\frac{1}{2}x - 5$

10) through:  $(-5, 2)$ , perp. to  $y = \frac{5}{7}x + 5$