

13.4 Perpendicular through a given point

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

1) through: $(-4, 1)$, perp. to $y = -4x - 5$

2) through: $(2, 0)$, perp. to $y = -\frac{1}{2}x - 2$

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

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

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

6) through: $(3, 5)$, perp. to $y = -x$

7) through: $(3, 0)$, perp. to $y = -2x + 1$

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

9) through: $(-1, 1)$, perp. to $x = 0$

10) through: $(-3, -3)$, perp. to $y = 1$

11) through: $(-1, -4)$, perp. to $y = -x + 5$

12) through: $(-3, 2)$, perp. to $y = \frac{5}{7}x + 4$