

Assignment: Equation of line

Date _____

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

1) through: $(-4, 0)$, slope = $-\frac{5}{4}$

2) through: $(-4, 4)$, slope = $-\frac{9}{4}$

3) through: $(-2, -5)$, slope = 3

4) through: $(2, -2)$, slope = $\frac{1}{2}$

Write the slope-intercept form of the equation of the line through the given points.

5) through: $(0, -1)$ and $(3, 4)$

6) through: $(1, 4)$ and $(0, -3)$

7) through: $(2, -2)$ and $(1, -4)$

8) through: $(-4, -2)$ and $(3, 0)$

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

9) through: $(-3, 0)$, parallel to $y = -\frac{3}{5}x + 3$

10) through: $(-3, 5)$, parallel to $y = -2x - 2$

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

12) through: $(2, 2)$, perp. to $y = 2x + 1$

Answers to Assignment: Equation of line

$$1) y = -\frac{5}{4}x - 5$$

$$2) y = -\frac{9}{4}x - 5$$

$$3) y = 3x + 1$$

$$4) y = \frac{1}{2}x - 3$$

$$5) y = \frac{5}{3}x - 1$$

$$6) y = 7x - 3$$

$$7) y = 2x - 6$$

$$8) y = \frac{2}{7}x - \frac{6}{7}$$

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

$$10) y = -2x - 1$$

$$11) y = 3x + 2$$

$$12) y = -\frac{1}{2}x + 3$$

