

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

1) through: $(4, -3)$, slope $= -\frac{1}{2}$

2) through: $(1, 3)$, slope $= 4$

3) through: $(-1, -5)$, slope $= 8$

4) through: $(-1, 5)$, slope $= 4$

5) through: $(-2, 1)$, slope $= -3$

6) through: $(3, 4)$, slope $= \frac{5}{3}$

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

7) through: $(0, 0)$ and $(-5, -3)$

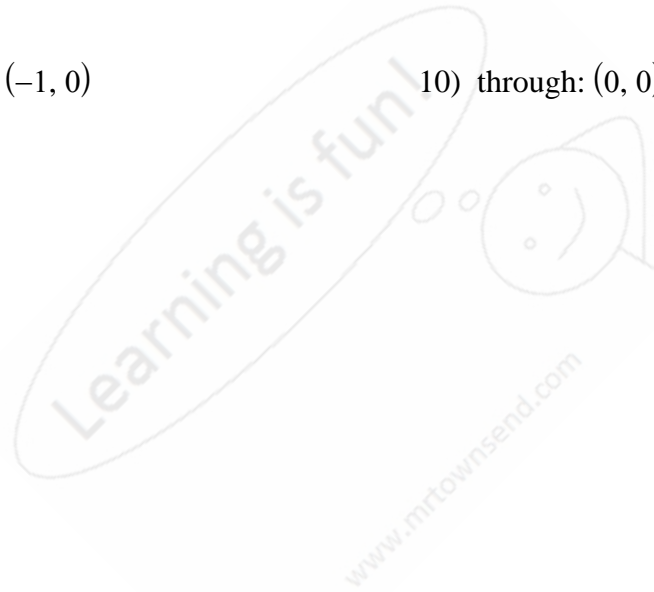
8) through: $(-2, -1)$ and $(3, 3)$

9) through: $(2, 3)$ and $(-1, 0)$

10) through: $(0, 0)$ and $(2, 0)$

11) through: $(1, -2)$ and $(-5, -4)$

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



Answers to

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

$$5) y - 1 = -3(x + 2)$$

$$9) y - 3 = x - 2$$

$$2) y - 3 = 4(x - 1)$$

$$6) y - 4 = \frac{5}{3}(x - 3)$$

$$10) y = 0$$

$$3) y + 5 = 8(x + 1)$$

$$7) y = \frac{3}{5}x$$

$$11) y + 2 = \frac{1}{3}(x - 1)$$

$$4) y - 5 = 4(x + 1)$$

$$8) y + 1 = \frac{4}{5}(x + 2)$$

$$12) y - 1 = \frac{3}{5}(x - 1)$$

