

Extra Practice - Point-Slope and Slope-Intercept Form

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

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

2) through: $(-5, 5)$, slope = 0

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

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

4) through: $(-2, -3)$ and $(5, -3)$

Write the point-slope form of the equation of each line given the slope and y-intercept.

5) Slope = 8 , y-intercept = 5

6) Slope = -2 , y-intercept = 5

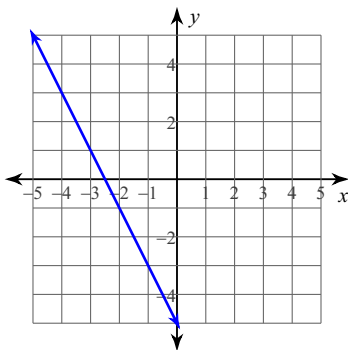
Write the slope-intercept form of the equation of each line given the slope and y-intercept.

7) Slope = -5 , y-intercept = 5

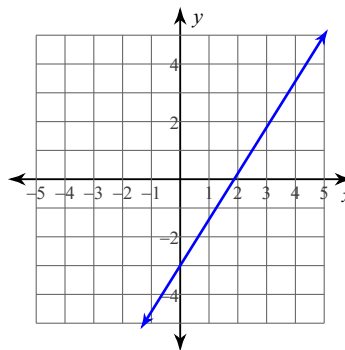
8) Slope = $-\frac{4}{5}$, y-intercept = 0

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

9)



10)



11) $0 = x + 2$

12) $y - 4 = -(x + 2)$

13) $4x - y = 3$

14) $2x + 3y = -12$

15) $2y - 4 + x = 0$

16) $-4 = -x$

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

17) through: $(-2, 1)$ and $(-5, 3)$

18) through: $(1, -3)$ and $(-1, 4)$

19) through: $(4, 5)$ and $(2, -5)$

20) through: $(1, -1)$ and $(-1, 2)$

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

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

22) through: $(5, -4)$, slope = $-\frac{4}{7}$

23) through: $(1, -3)$, slope = 0

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

Extra Practice - Point-Slope and Slope-Intercept Form

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

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

$$y + 4 = -2(x - 4)$$

2) through: $(-5, 5)$, slope = 0

$$y - 5 = 0$$

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

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

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

4) through: $(-2, -3)$ and $(5, -3)$

$$y + 3 = 0$$

Write the point-slope form of the equation of each line given the slope and y-intercept.

5) Slope = 8 , y-intercept = 5

$$y - 5 = 8x$$

6) Slope = -2 , y-intercept = 5

$$y - 5 = -2x$$

Write the slope-intercept form of the equation of each line given the slope and y-intercept.

7) Slope = -5 , y-intercept = 5

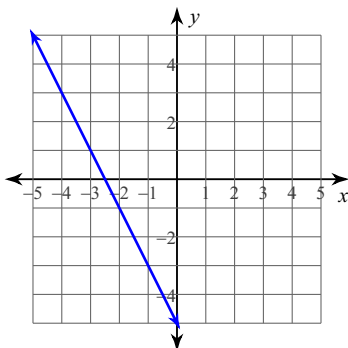
$$y = -5x + 5$$

8) Slope = $-\frac{4}{5}$, y-intercept = 0

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

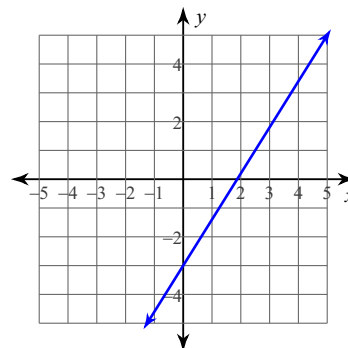
Write the slope-intercept form of the equation of each line.

9)



$$y = -2x - 5$$

10)



$$y = \frac{8}{5}x - 3$$

11) $0 = x + 2$

$$x = -2$$

12) $y - 4 = -(x + 2)$

$$y = -x + 2$$

13) $4x - y = 3$

$$y = 4x - 3$$

14) $2x + 3y = -12$

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

15) $2y - 4 + x = 0$

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

16) $-4 = -x$

$$x = 4$$

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

17) through: $(-2, 1)$ and $(-5, 3)$

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

18) through: $(1, -3)$ and $(-1, 4)$

$$y = -\frac{7}{2}x + \frac{1}{2}$$

19) through: $(4, 5)$ and $(2, -5)$

$$y = 5x - 15$$

20) through: $(1, -1)$ and $(-1, 2)$

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

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

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

$$y = x + 2$$

22) through: $(5, -4)$, slope = $-\frac{4}{7}$

$$y = -\frac{4}{7}x - \frac{8}{7}$$

23) through: $(1, -3)$, slope = 0

$$y = -3$$

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

$$y = -2x + 3$$