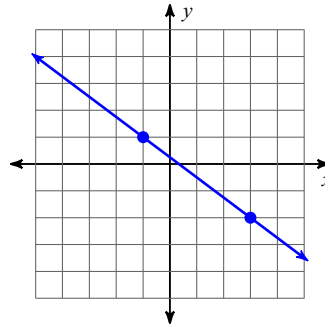


Slope-Intercept and Point-Slope Forms

Find the slope of each line.

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

2)



Find the slope of the line through each pair of points.

3) $(10, 2), (15, -13)$

4) $(-17, -11), (13, 11)$

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

5) Slope = $\frac{1}{2}$, y-intercept = 1

6) Slope = $-\frac{1}{5}$, y-intercept = 0

Write the slope-intercept form of the equation of the line through the given points. $y = mx + b$

7) through: $(3, 4)$ and $(0, 3)$

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

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

10) through: $(2, 3)$ and $(3, -2)$

11) through: $(-5, 2)$ and $(0, -2)$

12) through: $(2, 3)$ and $(5, 5)$

Write the Point-slope form of the equation of the line through the given points. $y - y_1 = m(x - x_1)$

13) through: $(-1, -4)$, slope = 8

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

15) through: $(-5, -5)$, slope = $\frac{9}{4}$

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

17) through: $(-4, 3)$, slope = $-\frac{7}{4}$

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

19) through: $(0, 3)$, slope = $-\frac{1}{5}$

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

Write the slope-intercept form of the equation of the line through the given point with the given slope. $y = mx + b$

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

22) through: $(-1, 4)$, slope = -6

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

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

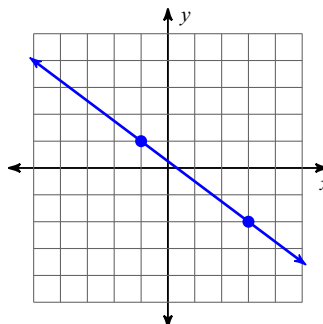
Slope-Intercept and Point-Slope Forms

Find the slope of each line.

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

$$-\frac{1}{5}$$

2)



$$-\frac{3}{4}$$

Find the slope of the line through each pair of points.

3) $(10, 2), (15, -13)$

$$-3$$

4) $(-17, -11), (13, 11)$

$$\frac{11}{15}$$

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

5) Slope = $\frac{1}{2}$, y-intercept = 1

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

6) Slope = $-\frac{1}{5}$, y-intercept = 0

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

Write the slope-intercept form of the equation of the line through the given points. $y = mx + b$

7) through: $(3, 4)$ and $(0, 3)$

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

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

$$y = x - 6$$

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

$$y = -7x - 30$$

10) through: $(2, 3)$ and $(3, -2)$

$$y = -5x + 13$$

11) through: $(-5, 2)$ and $(0, -2)$

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

12) through: $(2, 3)$ and $(5, 5)$

$$y = \frac{2}{3}x + \frac{5}{3}$$

Write the Point-slope form of the equation of the line through the given points. $y - y_1 = m(x - x_1)$

13) through: $(-1, -4)$, slope = 8

$$y + 4 = 8(x + 1)$$

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

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

15) through: $(-5, -5)$, slope = $\frac{9}{4}$

$$y + 5 = \frac{9}{4}(x + 5)$$

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

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

17) through: $(-4, 3)$, slope = $-\frac{7}{4}$

$$y - 3 = -\frac{7}{4}(x + 4)$$

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

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

19) through: $(0, 3)$, slope = $-\frac{1}{5}$

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

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

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

Write the slope-intercept form of the equation of the line through the given point with the given slope. $y = mx + b$

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

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

22) through: $(-1, 4)$, slope = -6

$$y = -6x - 2$$

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

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

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

$$y = -x - 4$$