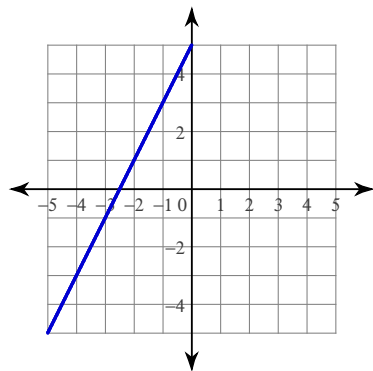


Writing Linear Equations

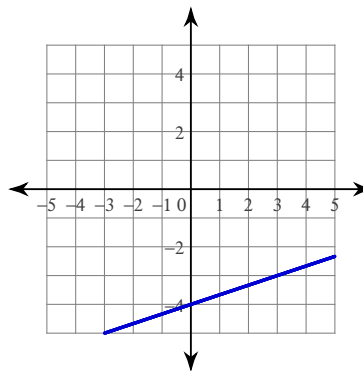
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Write the slope-intercept form of the equation of each line.

1)



2)



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

3) Slope = $\frac{7}{3}$, y-intercept = -3

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

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

5) $x + y = -4$

6) $4x - 5y = -5$

Write the standard form of the equation of each line.

7) $y - 4 = x - 4$

8) $y - 2 = x - 1$

9) $0 = -3y + 6 + 5x$

10) $-10y + 2x + 20 = 0$

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

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

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

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

13) through: $(2, -4)$, slope = 8

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

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

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

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

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

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

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

Write the standard form of the equation of the line through the given points.

19) through: $(-1, 1)$ and $(0, -3)$

20) through: $(0, -1)$ and $(-4, -1)$

Write the standard form of the equation of the line described.

21) through: $(4, 4)$, parallel to $y = \frac{5}{4}x + 1$

22) through: $(5, 1)$, parallel to $y = \frac{1}{5}x - 5$

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

23) through: $(-4, -3)$, parallel to $y = \frac{7}{4}x + 2$

24) through: $(5, 4)$, parallel to $y = \frac{3}{5}x$

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

25) through: $(2, -1)$, parallel to $y = -x$

26) through: $(3, 0)$, parallel to $y = -x + 1$

27) through: $(-4, 3)$, perp. to $x = 0$

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

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

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

30) through: $(2, 0)$, perp. to $y = \frac{2}{5}x - 3$

Write the standard form of the equation of the line described.

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

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

Answers to Writing Linear Equations (ID: 1)

1) $y = 2x + 5$

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

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

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

5) $y = -x - 4$

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

7) $x - y = 0$

8) $x - y = -1$

9) $5x - 3y = -6$

10) $x - 5y = -10$

11) $x + 3y = 8$

12) $4x + 5y = -1$

13) $y + 4 = 8(x - 2)$

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

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

16) $y + 5 = \frac{5}{7}(x + 5)$

17) $y = 3x + 2$

18) $y = -\frac{5}{4}x + \frac{13}{4}$

19) $4x + y = -3$

20) $y = -1$

21) $5x - 4y = 4$

22) $x - 5y = 0$

23) $y = \frac{7}{4}x + 4$

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

25) $y + 1 = -(x - 2)$

26) $y = -(x - 3)$

27) $y - 3 = 0$

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

29) $y = 2x + 5$

30) $y = -\frac{5}{2}x + 5$

31) $2x - 5y = 20$

32) $x = -1$