

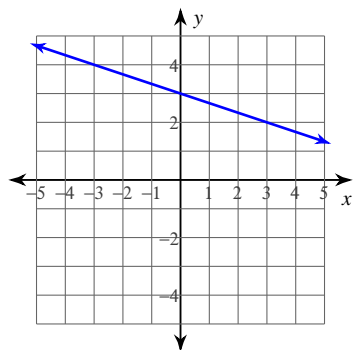
Writing linear equations - extra practice

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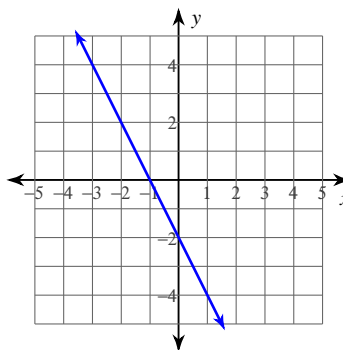
Date _____ Period _____

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

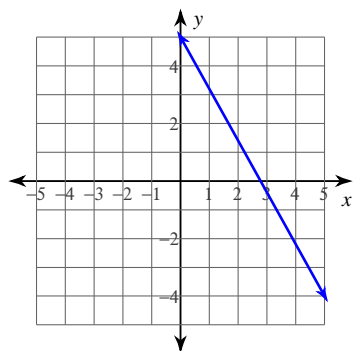
1)



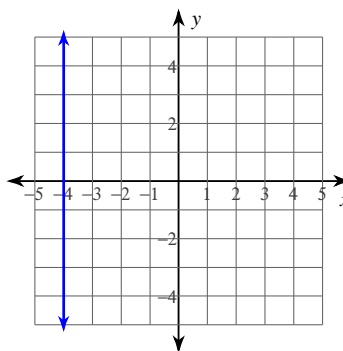
2)



3)



4)



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

5) Slope = -7 , y-intercept = 3

6) Slope = $-\frac{3}{5}$, y-intercept = 1

7) Slope = -1 , y-intercept = -2

8) Slope = 1 , y-intercept = 2

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

9) $7x + 6y = -30$

10) $11x - 8y = -64$

11) $y = -2$

12) $9x - 2y = -19$

13) $y + 4 = -\frac{8}{7}(x - 3)$

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

15) $y - 3 = -(x + 4)$

16) $y - 1 = x + 1$

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

17) through: $(-5, -4)$, slope = $\frac{8}{5}$

18) through: $(-4, -5)$, slope = $\frac{1}{2}$

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

20) through: $(2, 5)$, slope = 2

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

21) through: $(0, -5)$ and $(-1, 5)$

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

23) through: $(0, -1)$ and $(1, 0)$

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

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

25) through: $(3, 4)$, parallel to $y = x + 2$

26) through: $(-2, -1)$, parallel to $y = \frac{2}{3}x + 1$

27) through: $(-3, -1)$, parallel to $y = 2x + 3$

28) through: $(3, 3)$, parallel to $y = -\frac{1}{3}x - 3$

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

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

30) through: $(2, 0)$, perp. to $y = -\frac{6}{5}x - 1$

31) through: $(-5, -3)$, perp. to $y = x - 2$

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

Answers to Writing linear equations - extra practice (ID: 1)

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

2) $y = -2x - 2$

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

4) $x = -4$

5) $y = -7x + 3$

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

7) $y = -x - 2$

8) $y = x + 2$

9) $y = -\frac{7}{6}x - 5$

10) $y = \frac{11}{8}x + 8$

11) $y = -2$

12) $y = \frac{9}{2}x + \frac{19}{2}$

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

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

15) $y = -x - 1$

16) $y = x + 2$

17) $y = \frac{8}{5}x + 4$

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

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

20) $y = 2x + 1$

21) $y = -10x - 5$

22) $y = -\frac{5}{2}x + 6$

23) $y = x - 1$

24) $y = -\frac{1}{7}x + \frac{11}{7}$

25) $y = x + 1$

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

27) $y = 2x + 5$

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

29) $5x + 2y = -8$

30) $5x - 6y = 10$

31) $x + y = -8$

32) $4x - 3y = 4$