Assignment on Writing Linear Equations

Date Period_

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

1) through: (0, 5) and (4, -4)

2) through: (4, 1) and (0, 2)

3) through: (3, -3) and (1, 1)

4) through: (-1, 1) and (4, -1)

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

6) through: (1, -2) and (1, 5)

7) through: (4, 1) and (-5, -1)

8) through: (-5, 0) and (4, -5)

9) through: (-2, 4) and (-3, -3)

10) through: (3, 1) and (3, -2)

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

11) through: (2, 5), slope = -9

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

13) through: (-1, 4), slope = -3

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

15) through: (-2, 3), slope = 0

16) through: (1, 4), slope = 0

17) through: (2, -3), slope = -7

18) through: (2, 1), slope = 3

19) through: (-1, 3), slope = 2

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

21) through: (3, -1), slope = -2

22) through: (3, 4), slope = 1

Name

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Period____

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

- through: (2, 2), parallel to y = x + 4
- 2) through: (4, 3), parallel to x = 0

- 3) through: (2, -4), parallel to y = 3x + 2
- 4) through: (2, -1), parallel to $y = -\frac{2}{5}x + 3$

- 5) through: (1, -5), perp. to $y = \frac{1}{8}x + 2$
- 6) through: (4, -1), perp. to y = x + 2

7) through: (-5, 5), perp. to
$$y = \frac{5}{9}x - 4$$

8) through:
$$(3, 4)$$
, perp. to $y = -2x - 4$

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

9) through: (4, 4), parallel to
$$y = -6x + 5$$

10) through:
$$(-5, 5)$$
, parallel to $y = -3x + 3$

11) through:
$$(3, -2)$$
, perp. to $y = 5x + 4$

12) through: (3, 1), perp. to
$$y = -\frac{2}{3}x + 4$$

Write the standard form of the equation of each line.

13)
$$y = 3x + 1$$

14)
$$y = -\frac{9}{5}x + 3$$