AC Algebra 1/Geo A	Name		ID: 1
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Writing Equations of Linear Functions	5	Date	Period

1) through: (-3, 3), slope =
$$-\frac{5}{3}$$
 2) through: (1, 4), slope = $\frac{2}{5}$

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

3) through: (0, -4) and (-4, 3) 4) through: (1, 3) and (0, 2)

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

5) through: $(5, -3)$, parallel to $y = 5$	6) through: (2, -5), parallel to $y = -\frac{9}{4}x - 4$
7) through: $(3, -3)$, perp. to $y = -3x - 1$	8) through: $(-2, 2)$, perp. to $y = x + 5$

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

9) Slope =
$$\frac{1}{2}$$
, y-intercept = 0 10) Slope = $\frac{1}{4}$, y-intercept = 3

11) through: (2, 5), slope = -10 12) through: (-3, -4), slope = 0

Write the slope intercpet AND standard form of the equation of the line described.

13) through: (-3, -1), perp. to $y = -\frac{3}{4}x - 3$ 14) through: (-1, 2), perp. to y = x + 1

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

16) through: (-1, -4), parallel to y = 7x - 4

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

17) through: (0, 4) and (-3, 2) 18) through: (0, 0) and (5, 2)

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

19) through: (2, 2) and (0, -1) 20) through: (5, -1) and (4, 1)

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Writing Equations of Linear	Functions	Date	Period

1) through: (-3, 3), slope =
$$-\frac{5}{3}$$
 $y = -\frac{5}{3}x - 2$ 2) through: (1, 4), slope = $\frac{2}{5}$ $y = \frac{2}{5}x + \frac{18}{5}$

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

3) through: (0, -4) and (-4, 3) $y = -\frac{7}{4}x - 4$ 4) through: (1, 3) and (0, 2)y = x + 2

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

- 5) through: (5, -3), parallel to y = 5y = -36) through: (2, -5), parallel to $y = -\frac{9}{4}x - 4$ $y = -\frac{9}{4}x - \frac{1}{2}$
- 7) through: (3, -3), perp. to y = -3x 1 $y = \frac{1}{3}x 4$ 8) through: (-2, 2), perp. to y = x + 5y = -x

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

9) Slope = $\frac{1}{2}$, y-intercept = 0 $y = \frac{1}{2}x$ 10) Slope = $\frac{1}{4}$, y-intercept = 3 $y = \frac{1}{4}x + 3$

11) through: (2, 5), slope = -10y = -10x + 25

12) through:
$$(-3, -4)$$
, slope = 0
 $y = -4$

Write the slope intercpet AND standard form of the equation of the line described.

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

$$x + 2y = 0$$

4x - 3y = -9

16) through: (-1, -4), parallel to y = 7x - 47x - y = -3

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

17) through: (0, 4) and (-3, 2)18) through: (0, 0) and (5, 2)2x - 3y = -122x - 5y = 0

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

19) through: (2, 2) and (0, -1) $y = \frac{3}{2}x - 1$ 20) through: (5, -1) and (4, 1) y = -2x + 9