

Quiz 15 Practice

Date _____ Period _____

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

1) Slope = $-\frac{3}{2}$, y-intercept = 1

2) Slope = -2, y-intercept = -3

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

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

4) through: $(1, 5)$, slope = -3

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

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

6) through: $(-3, -2)$, parallel to $y = -6x - 3$

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

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

8) through: $(-1, -2)$ and $(0, -4)$

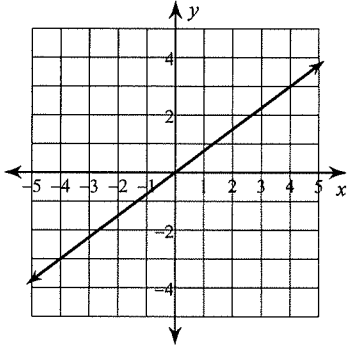
Write the slope-intercept form of the equation of each line.

9) $x + 5y = 5$

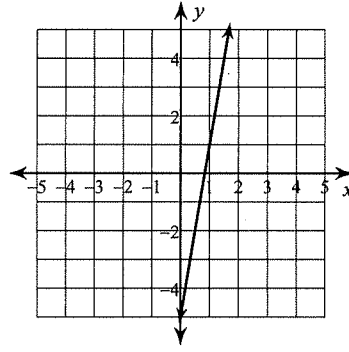
10) $9x + 8y = -32$

Write the slope-intercept form ($y = mx + b$) of the equation of each line.

11)

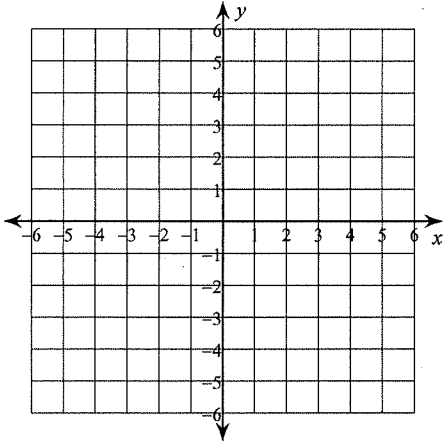


12)

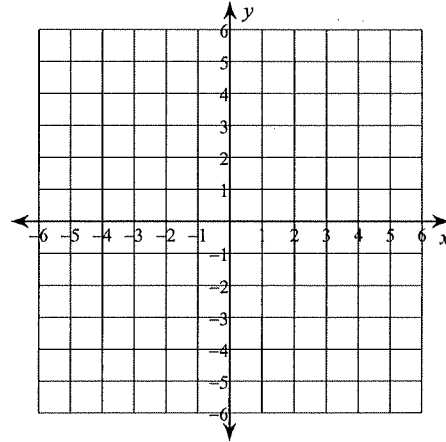


Sketch the graph of each line.

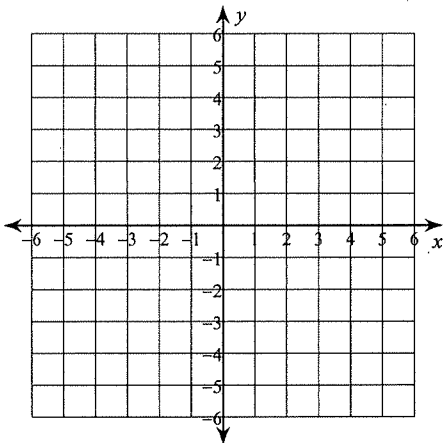
13) $y = \frac{3}{5}x + 5$



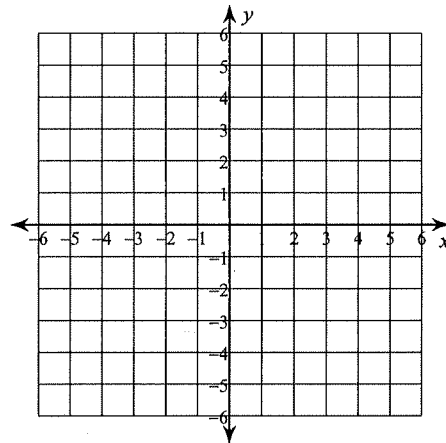
14) $y = -8x + 4$



15) $-x - 15 = -3y$



16) $2y - 2 = 3x$



Key

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

1) Slope = $-\frac{3}{2}$, y-intercept = 1

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

2) Slope = -2, y-intercept = -3

$$y = -2x - 3$$

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

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

$$y = \frac{3}{2}x + 4$$

4) through: $(1, 5)$, slope = -3

$$y = -3x + 8$$

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

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

$$y = \frac{7}{3}x - 5$$

6) through: $(-3, -2)$, parallel to $y = -6x - 3$

$$y = -6x - 20$$

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

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

$$y = x - 1$$

8) through: $(-1, -2)$ and $(0, -4)$

$$y = -2x - 4$$

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

9) $x + 5y = 5$

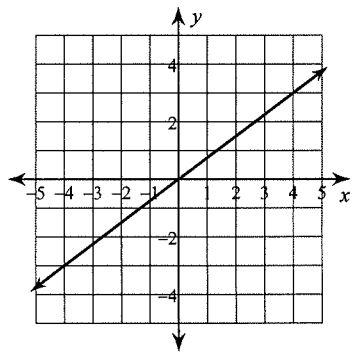
$$y = -\frac{1}{5}x + 1$$

10) $9x + 8y = -32$

$$y = -\frac{9}{8}x - 4$$

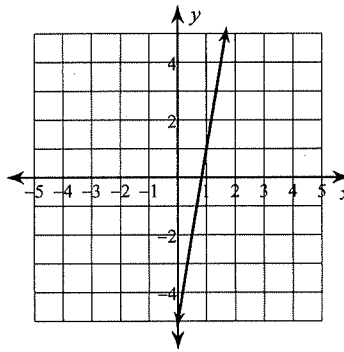
Write the slope-intercept form ($y = mx + b$) of the equation of each line.

11)



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

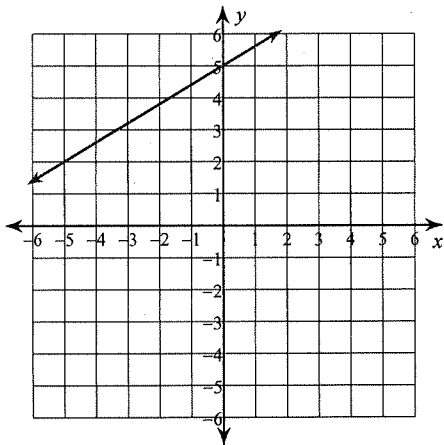
12)



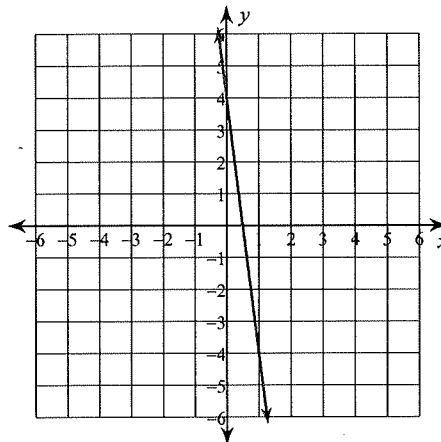
$$y = 6x - 5$$

Sketch the graph of each line.

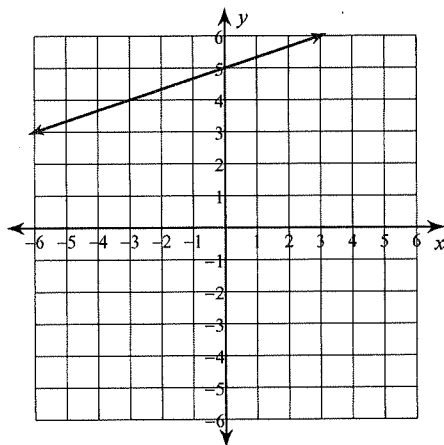
13) $y = \frac{3}{5}x + 5$



14) $y = -8x + 4$



15) $-x - 15 = -3y$



16) $2y - 2 = 3x$

