

Writing Equations of Lines

Write the slope-intercept form of the equation with given information.

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

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

3) through: $(1, 5)$, slope = -8

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

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

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

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

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

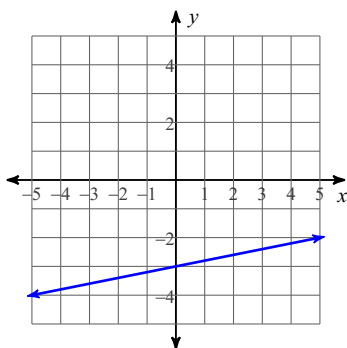
9) through: $(0, 3)$ and $(1, -2)$

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

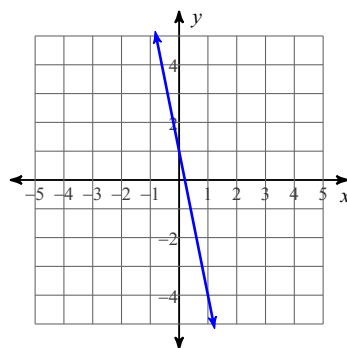
11) through: $(-5, 4)$ and $(0, 1)$

12) through: $(-4, 5)$ and $(-1, -5)$

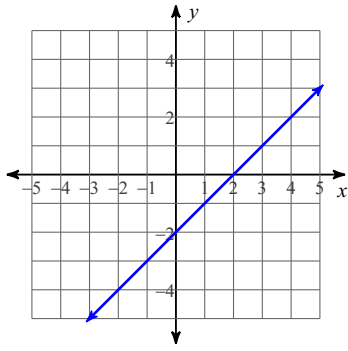
13)



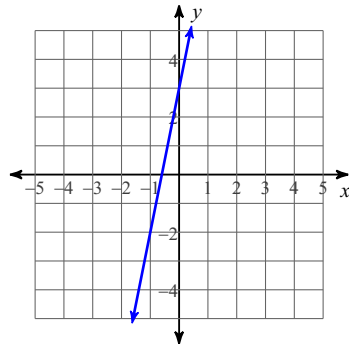
14)



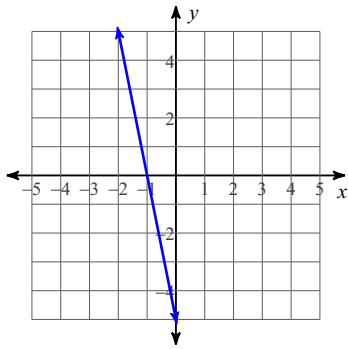
15)



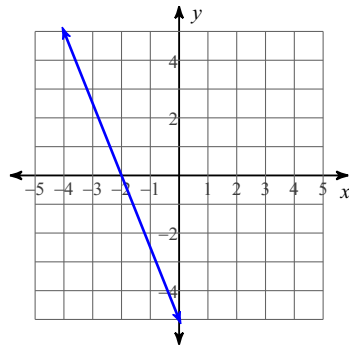
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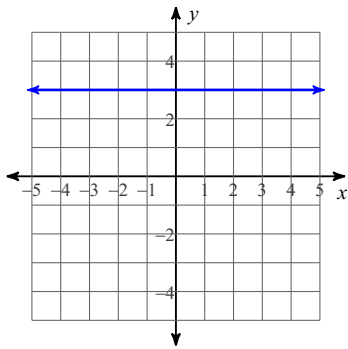
17)



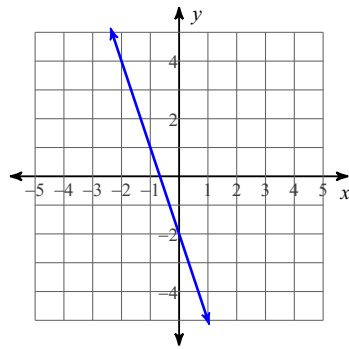
18)



19)



20)



Writing Equations of Lines

Write the slope-intercept form of the equation with given information.

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

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

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

$$y = \frac{1}{3}x$$

3) through: $(1, 5)$, slope = -8

$$y = -8x + 13$$

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

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

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

$$y = -\frac{4}{5}x - \frac{11}{5}$$

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

$$y = \frac{4}{3}x - 5$$

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

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

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

$$y = \frac{1}{4}x - \frac{15}{4}$$

9) through: $(0, 3)$ and $(1, -2)$

$$y = -5x + 3$$

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

$$y = 2x - 1$$

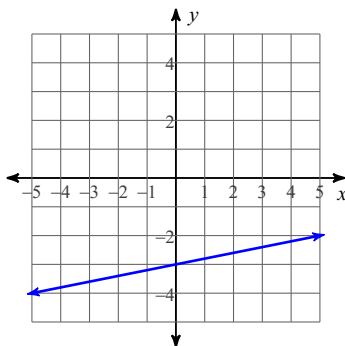
11) through: $(-5, 4)$ and $(0, 1)$

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

12) through: $(-4, 5)$ and $(-1, -5)$

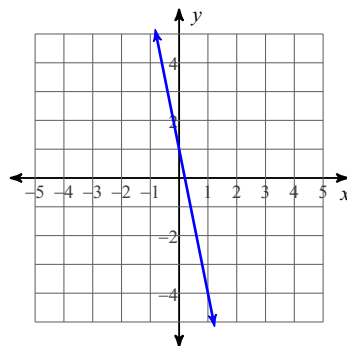
$$y = -\frac{10}{3}x - \frac{25}{3}$$

13)



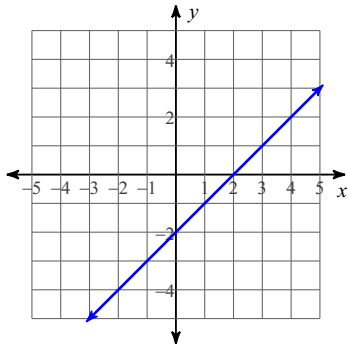
$$y = \frac{1}{5}x - 3$$

14)



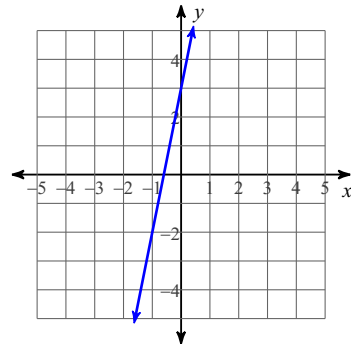
$$y = -5x + 1$$

15)



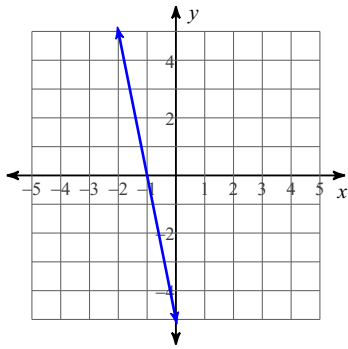
$$y = x - 2$$

16)



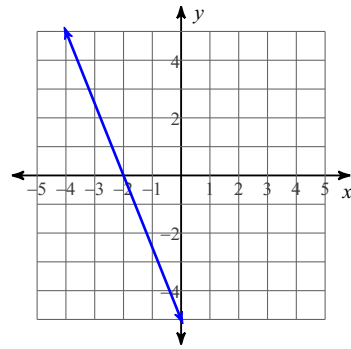
$$y = 5x + 3$$

17)



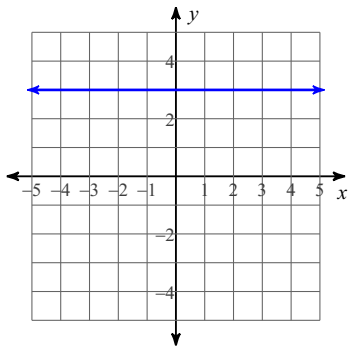
$$y = -5x - 5$$

18)



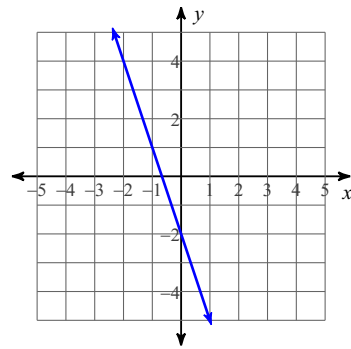
$$y = -\frac{5}{2}x - 5$$

19)



$$y = 3$$

20)



$$y = -3x - 2$$