

Writing Linear Equations

Date _____ Period _____

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

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

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

3) through: $(1, 2)$, slope = 5

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

5) through: $(1, 2)$, slope = 3

6) through: $(2, 2)$, slope = -1

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

7) through: $(-5, -1)$ and $(0, -2)$

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

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

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

11) through: $(0, -3)$ and $(-1, -4)$

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

Slope intercept Form Lesson:

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

13) $9x + 5y = -40$

14) $2x + y = 6$

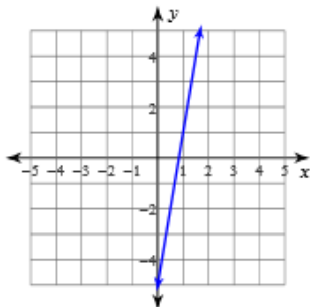
15) $x + y = 0$

16) $3x - y = -7$

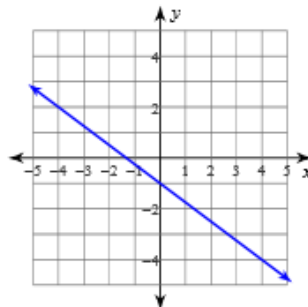
17) $4x - y = 5$

18) $5x + 2y = 4$

19)

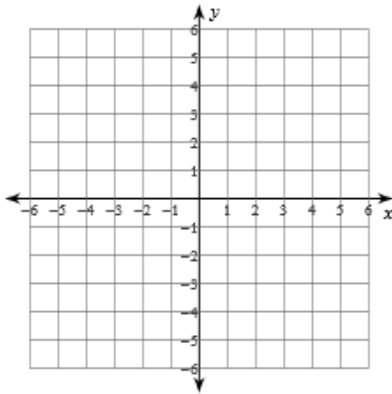


20)

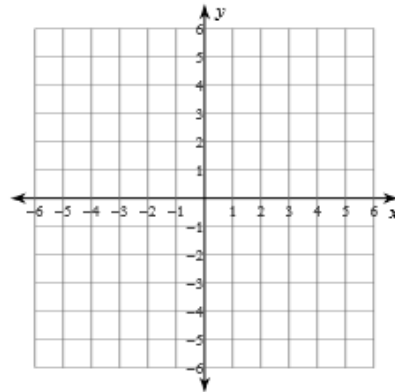


Sketch the graph of each line.

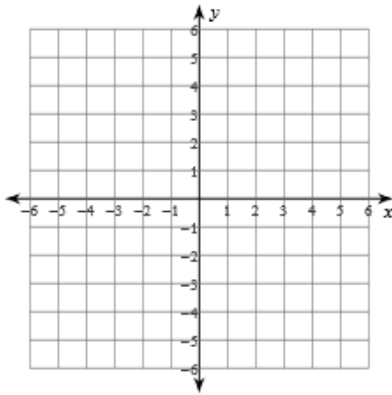
21) $y = -\frac{2}{5}x - 4$



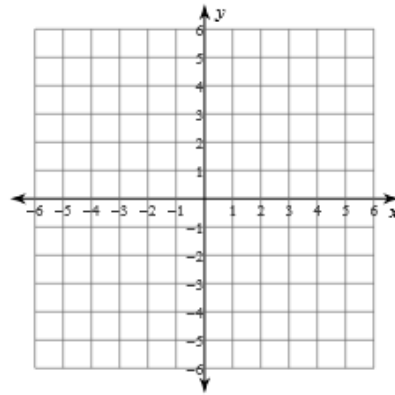
22) $y = -2x + 4$



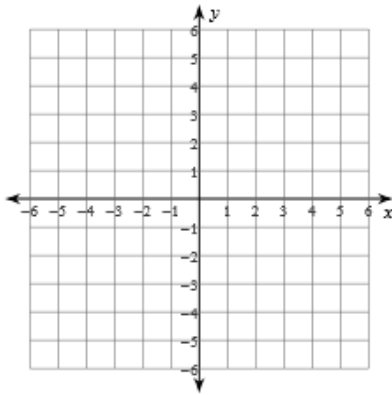
23) $y = -x$



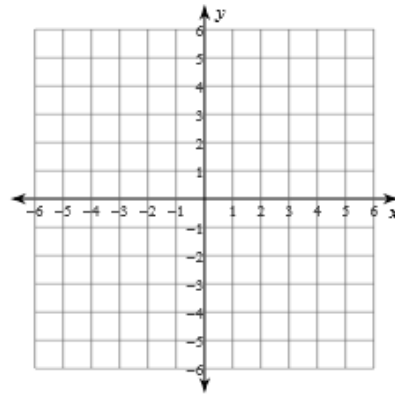
24) $x - 2y = 0$



25) $3x + y = -4$



26) $7x - 4y = 20$



Answers to Writing Linear Equations (ID: 1)

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

2) $y = \frac{1}{4}x - 5$

3) $y = 5x - 3$

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

5) $y = 3x - 1$

6) $y = -x + 4$

7) $y = -\frac{1}{5}x - 2$

8) $y = -x - 4$

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

10) $y = 4x + 5$

11) $y = x - 3$

12) $y = -5x + 24$

13) $y = -\frac{9}{5}x - 8$

14) $y = -2x + 6$

15) $y = -x$

16) $y = 3x + 7$

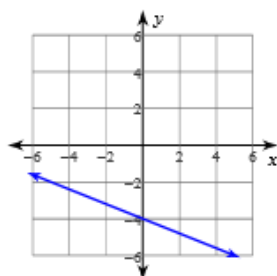
17) $y = 4x - 5$

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

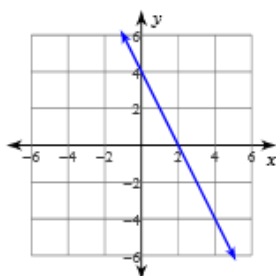
19) $y = 6x - 5$

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

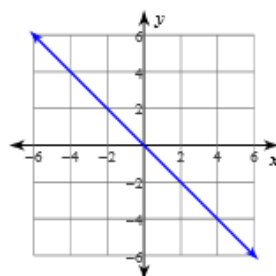
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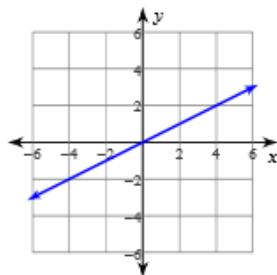
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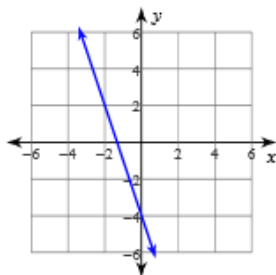
23)



24)



25)



26)

