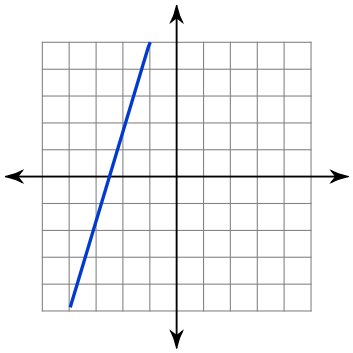
Algebra I Name_____

Slope/Slope-Intercept form Practice

Date_____ Period____

Find the slope of each line.

1)



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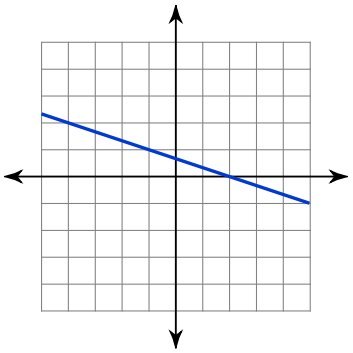

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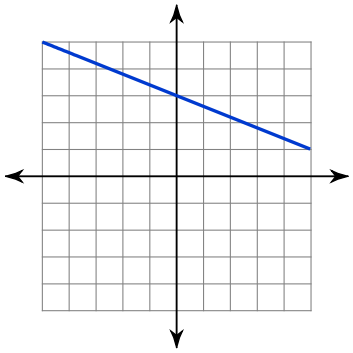

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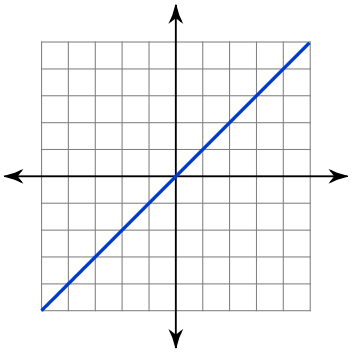

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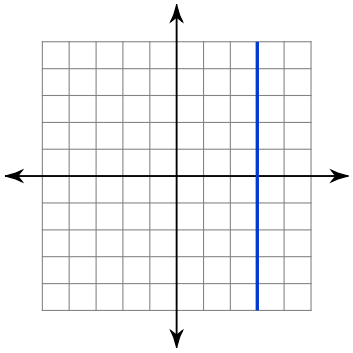

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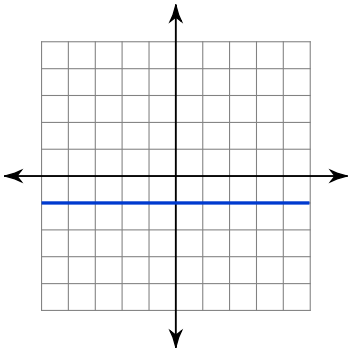


Find the slope of the line through each pair of points.

7) $(16, 1), (17, 7)$

8) $(2, 8), (7, 8)$

9) $(-16, 7), (-15, 17)$

10) $(-11, 15), (-11, 6)$

Find the slope and y-intercept of each equation.

11) $y + 3 = x$

12) $2y - 10 = -4x$

13) $-5 - y = -3x$

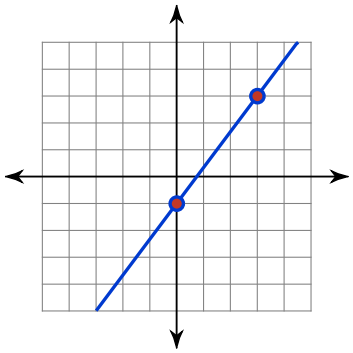
14) $y = 5x$

15) $6 - 2y = -x$

16) $5y + 10 = -2x$

Write an equation for each line in Slope-Intercept Form

17)



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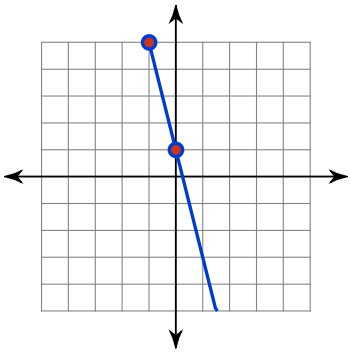

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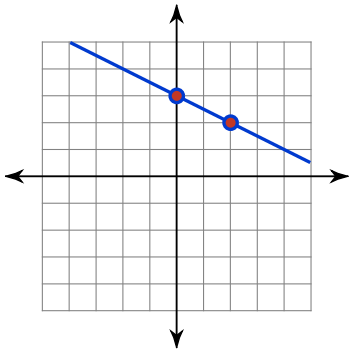

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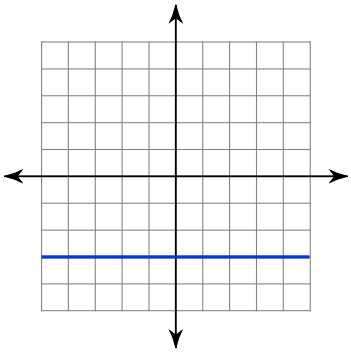

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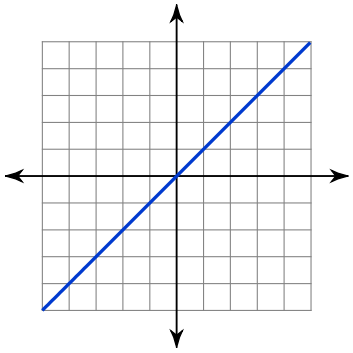

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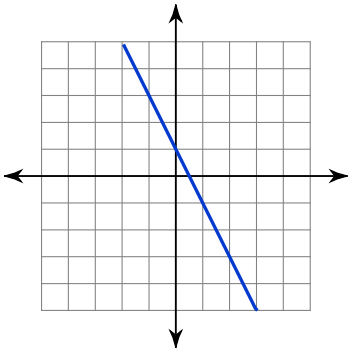
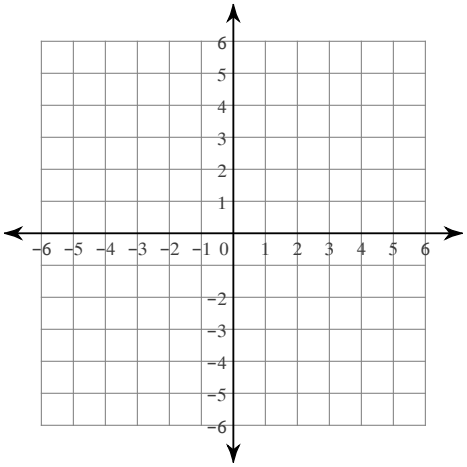
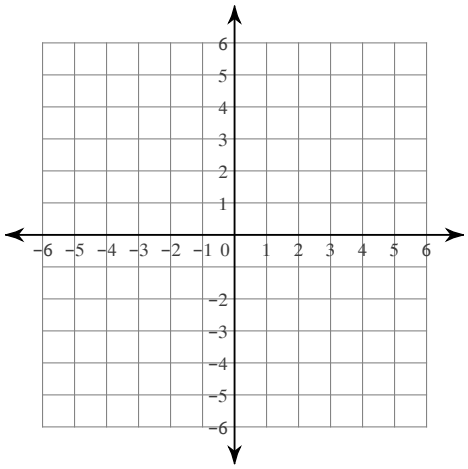


Sketch the graph of each line.

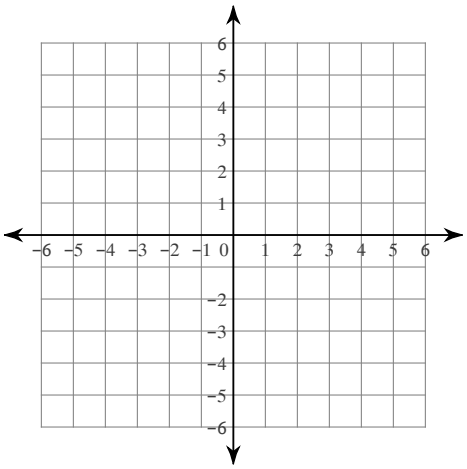
23) $y = -2x + 2$



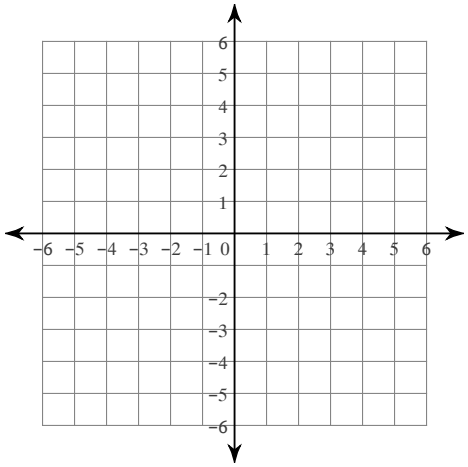
24) $y = \frac{3}{5}x - 4$



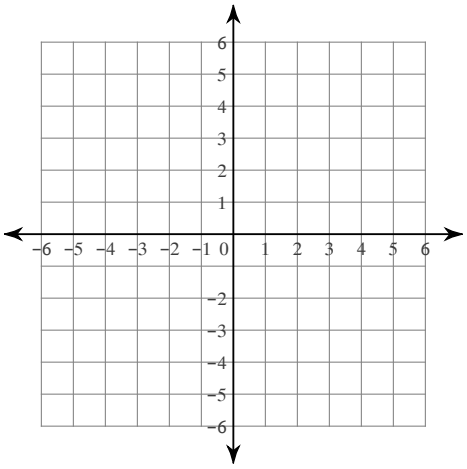
25) $y = \frac{1}{4}x + 1$



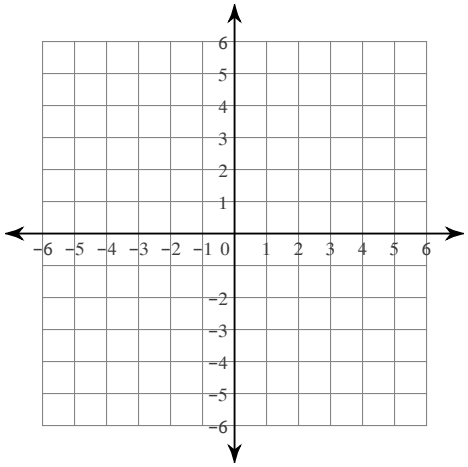
26) $y = x$



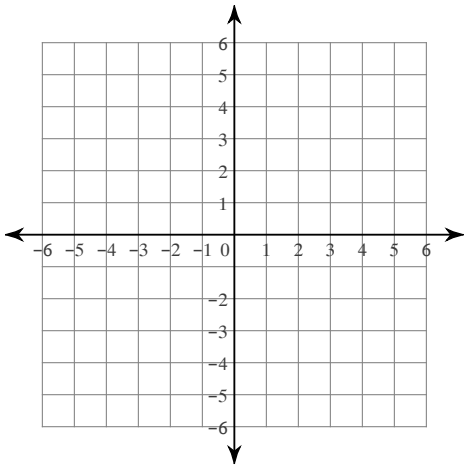
27) $y = -\frac{1}{3}x - 2$



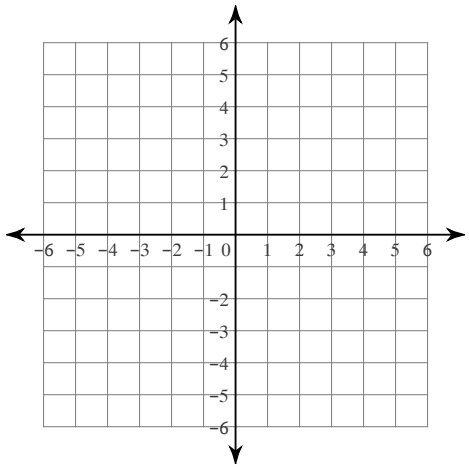
28) $y = -4$



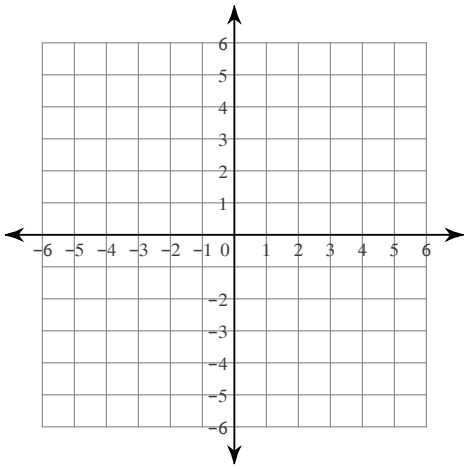
29) $y = -\frac{3}{4}x + 2$



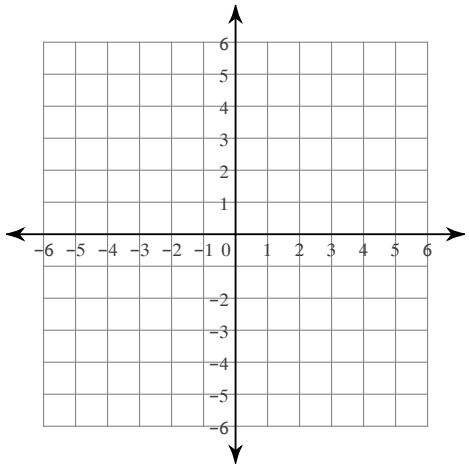
30) $y = \frac{2}{5}x + 5$



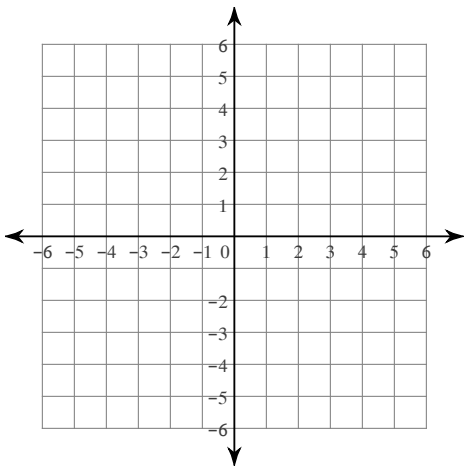
31) $y = -\frac{4}{5}x - 1$



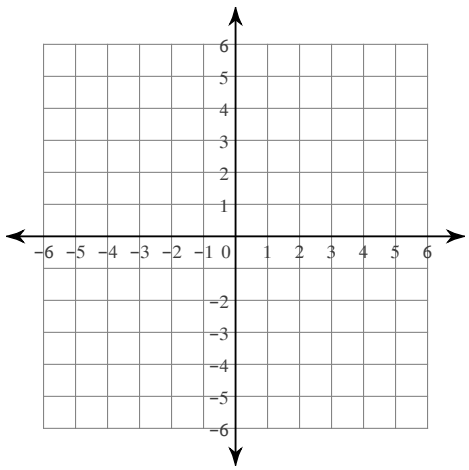
32) $y = -3x + 1$



33) $y = 2x$



34) $y = 4$



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

35) Slope = $-\frac{5}{3}$, y-intercept = 1

36) Slope = 5, y-intercept = 2

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

37) through: $(-5, 0)$ and $(-4, 4)$

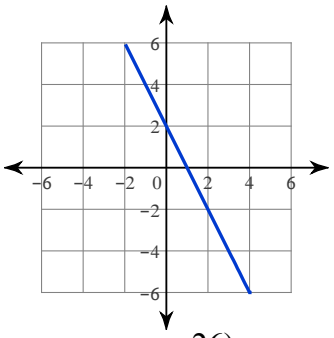
38) through: $(-2, -1)$ and $(-4, -3)$

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

40) through: $(5, -5)$ and $(0, -1)$

Answers to Slope/Slope-Intercept form Practice

1) $\frac{10}{3}$
2) $-\frac{1}{3}$
3) $-\frac{2}{5}$
4) 1
5) Undefined
6) 0
7) 6
8) 0
9) 10
10) Undefined
11) 1
12) −2
13) 3
14) 5
15) $\frac{1}{2}$
16) $-\frac{2}{5}$
17) $\frac{4}{3}$
18) −4
19) $-\frac{1}{2}$
20) 0
21) 1
22) −2
23)



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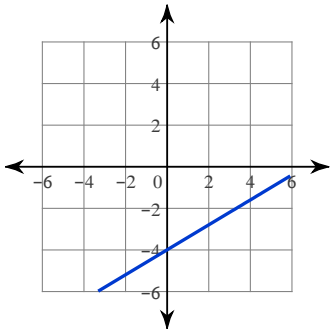

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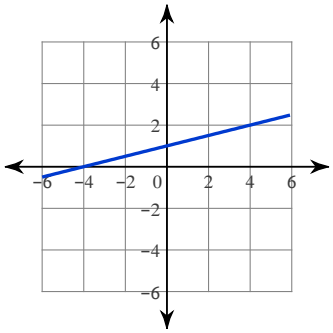

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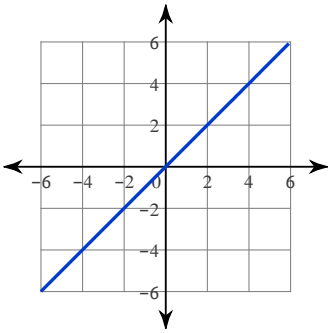

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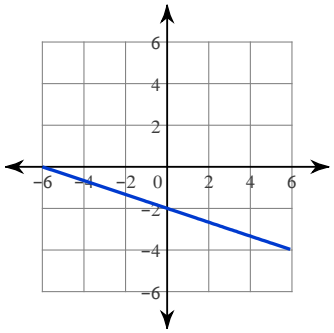

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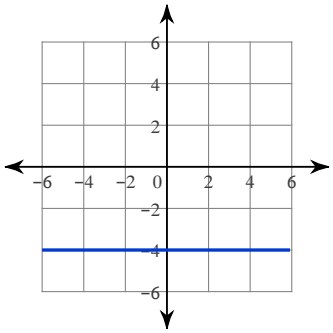

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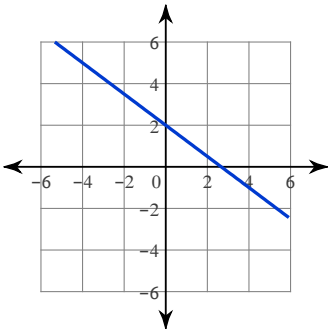

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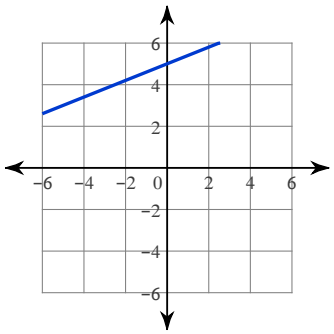

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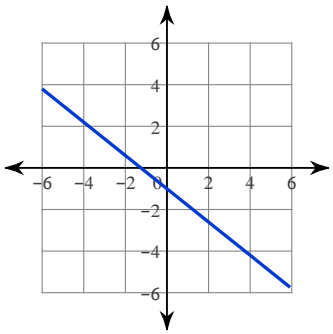

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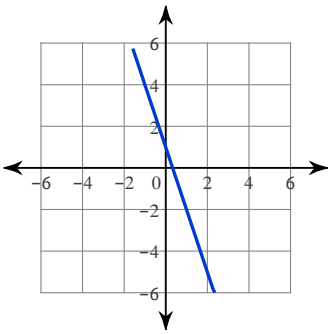

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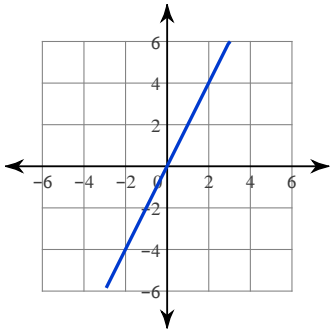

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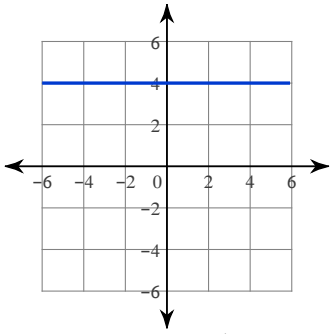

35) $y = -\frac{5}{3}x + 1$

36) $y = 5x + 2$

37) $y = 4x + 20$

38) $y = x + 1$

39) $y = 5x + 23$

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