Math 9 - Analytic Geometry Name_____

Homework #1: Slope Intercept Form Part 1

Due Date_____ 5K____

Convert to y=mx+b, then state the slope (m) and y-intercept (b) of each line.

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

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

3) $3x + 2y = 4$

4) $5x + 2y = -10$

5) $x + 3y = 12$

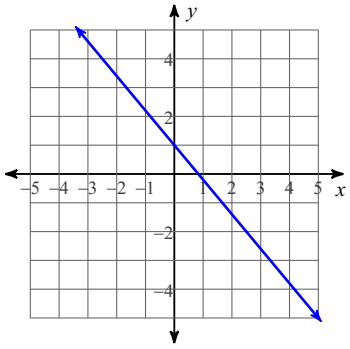
6) $x + y = 0$

7) $-\frac{9}{2} - \frac{9}{8}y = -3x$

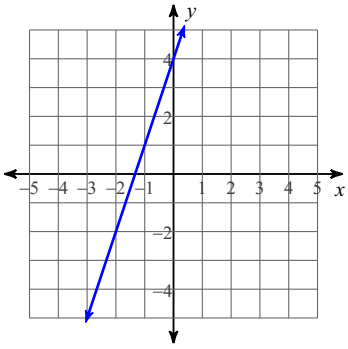
8) $-6y - 18 = 9x$

State the slope and y-intercept, then write equation to the line.

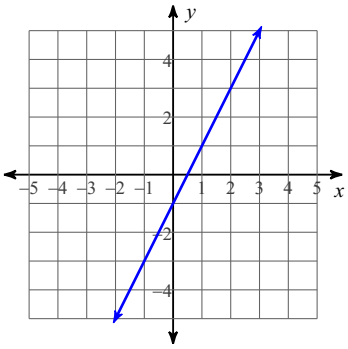
9)



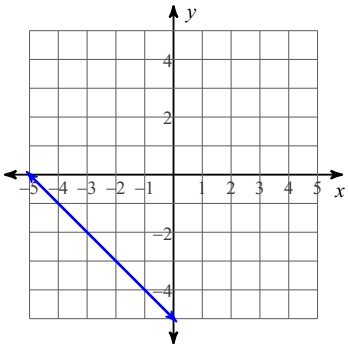
10)



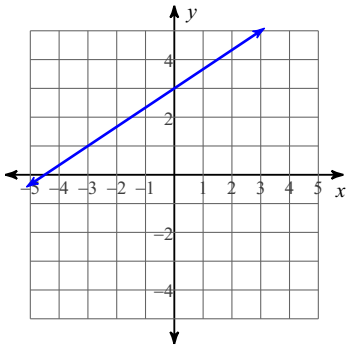
11)



12)



13)



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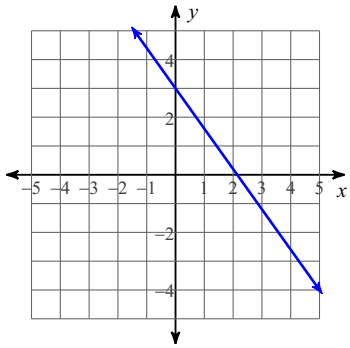
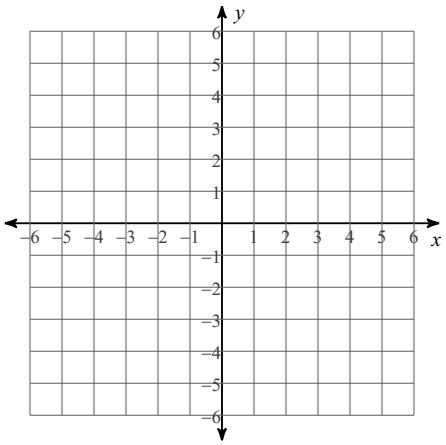
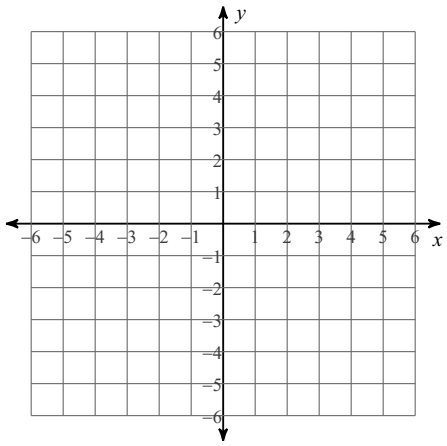


Graph by plotting the y-intercept, then use the Rise/Run from the y-int.

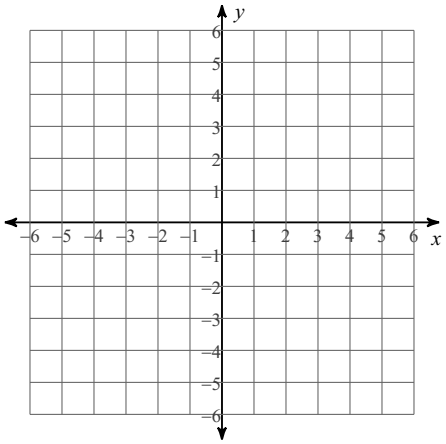
15) $y = \frac{2}{3}x + 2$



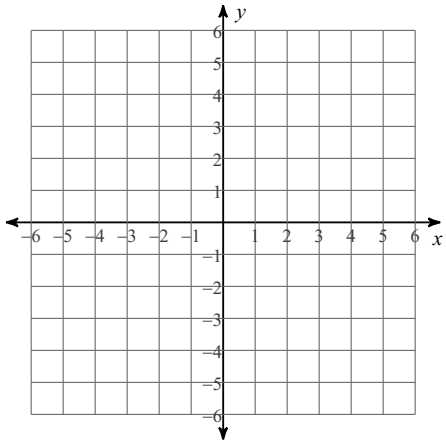
16) $y = -x$



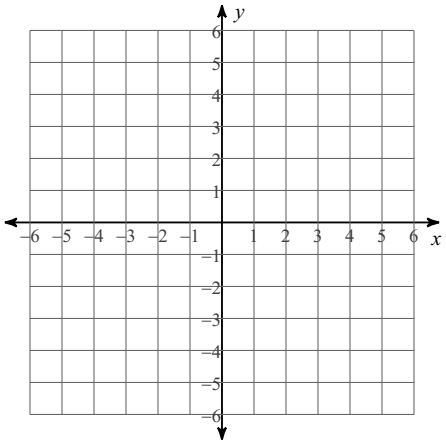
17) $3x - 4y = 8$



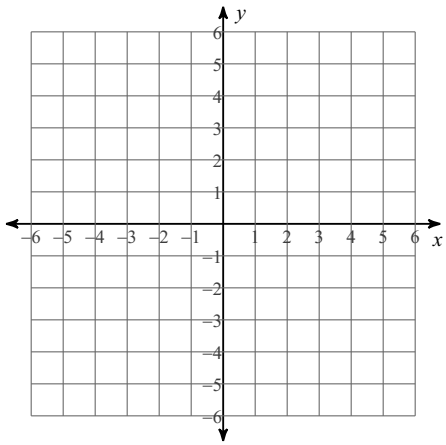
18) $x - 2y = -2$



19) $x + \frac{5}{2} = \frac{1}{2}y$



20) $-15 - 5y = -8x$



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$-\frac{4}{3}$, b = -5

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$-\frac{1}{2}$, b = -2

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$-\frac{3}{2}$, b = 2

4) $5x + 2y = -10$

$-\frac{5}{2}$, b = -5

5) $x + 3y = 12$

$-\frac{1}{3}$, b = 4

6) $x + y = 0$

-1, b = 0

7) $-\frac{9}{2} - \frac{9}{8}y = -3x$

$\frac{8}{3}$, b = -4

8) $-6y - 18 = 9x$

$-\frac{3}{2}$, b = -3

State the slope and y-intercept, then write equation to the line.

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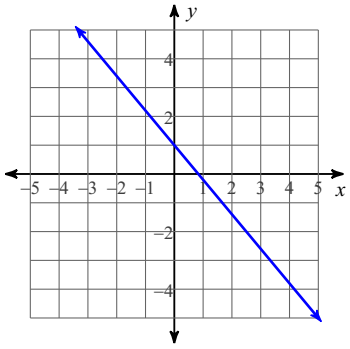
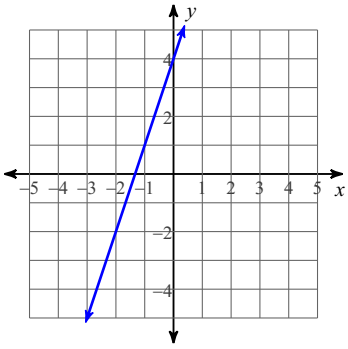


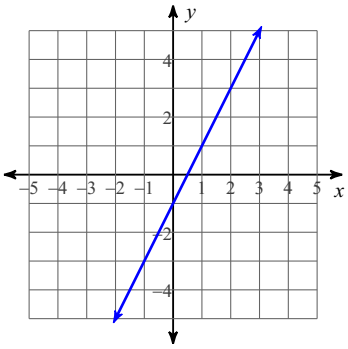
$y = -\frac{6}{5}x + 1$

10)



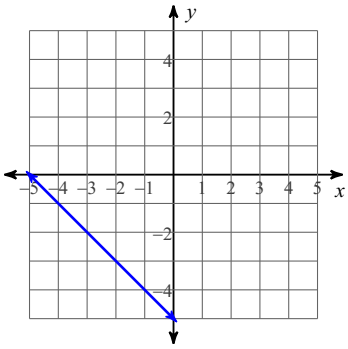
$y = 3x + 4$

11)



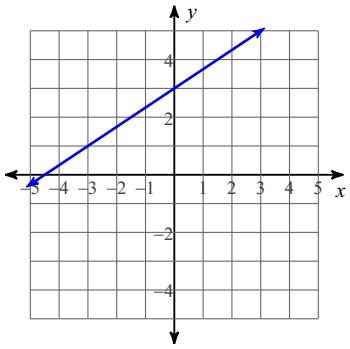
$y = 2x - 1$

12)



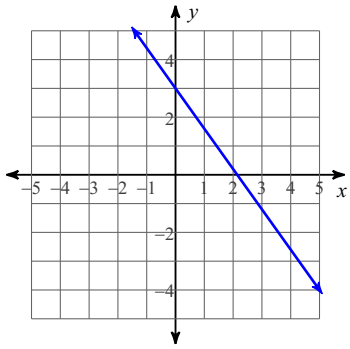
$y = -x - 5$

13)



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

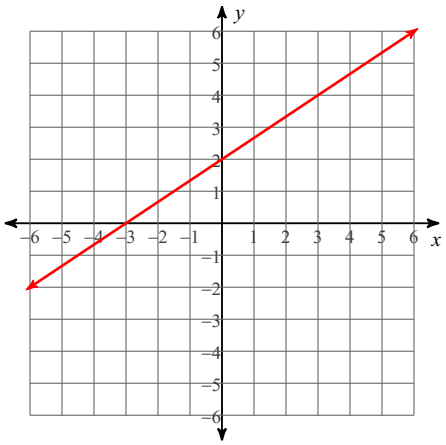
14)



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

Graph by plotting the y-intercept, then use the Rise/Run from the y-int.

15) $y = \frac{2}{3}x + 2$



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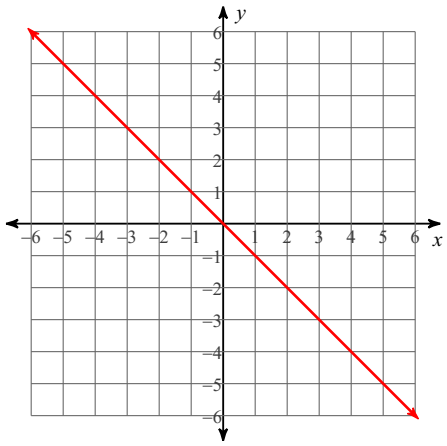

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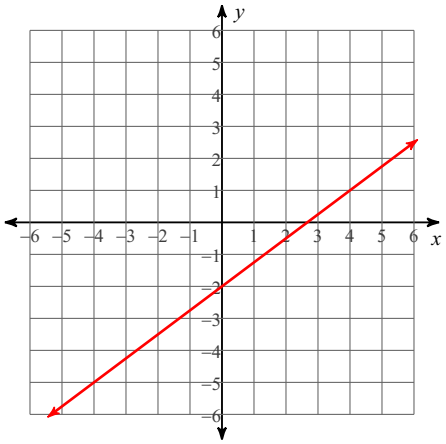

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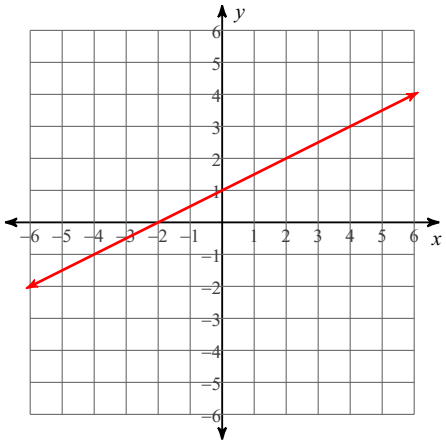

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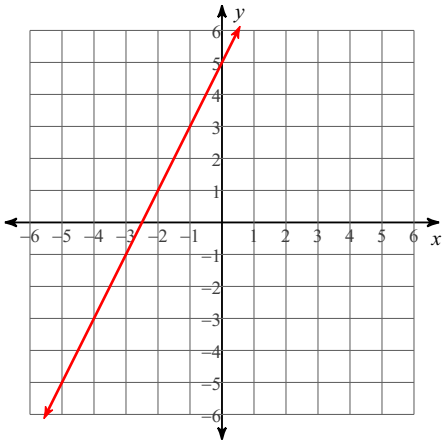

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