

Name: _____

No work No credit

Date: _____

CW # 1-4: Algebra 1 - Standard 11: Section 4-1: Graph Linear Equations: Tables and Intercepts

30 points

For each of the following linear equations,

a. Convert to slope intercept form if not already in that form.

b. Make a table of values

c. Sketch the graph. Be detailed with your graph.

***Do any scrap work needed below the line at the bottom of the page

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

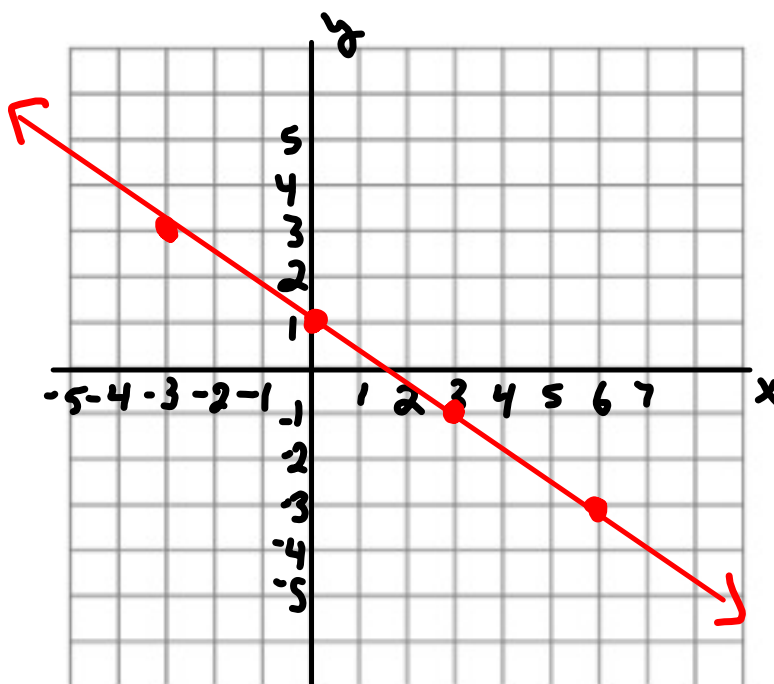
①

x	y
0	1
3	-1
6	-3
-3	3

②

③

④



① $y = -\frac{2}{3} \left(\frac{0}{1} \right) + 1$
 $y = 1$

② $y = -\frac{2}{3} \left(\frac{3}{1} \right) + 1$
 $-\frac{6}{3} + 1$
 $-2 + 1 = -1$

③ $y = -\frac{2}{3} \left(\frac{6}{1} \right) + 1$
 $-\frac{12}{3} + 1$
 $-4 + 1 = -3$

④ $y = -\frac{2}{3} \left(\frac{-3}{1} \right) + 1$
 $\frac{6}{3} + 1 \rightarrow 2 + 1 = 3$

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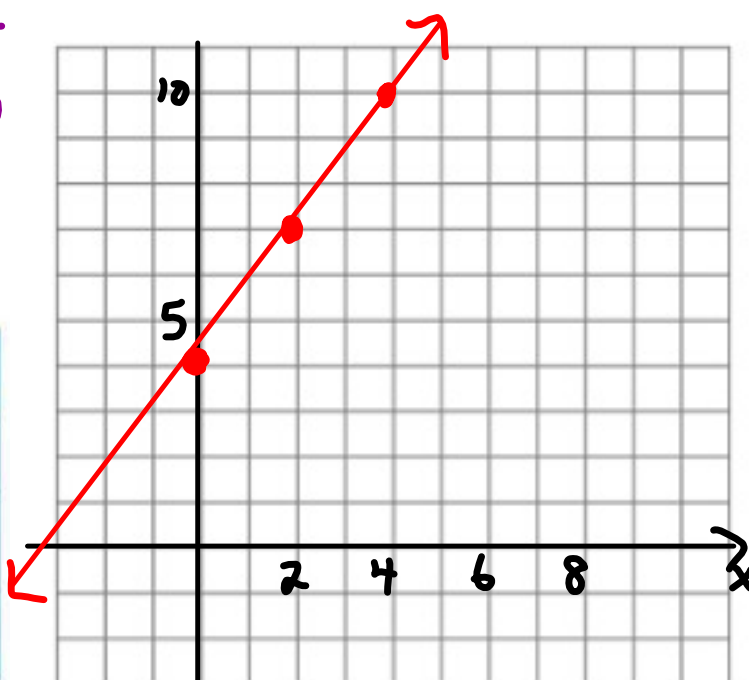
***Do any scrap work needed below the line at the bottom of the page

2.

$$\begin{aligned} -3x + 2y &= 8 \\ +3x & \\ \hline 2y &= 3x + 8 \\ \frac{2y}{2} &= \frac{3x}{2} + \frac{8}{2} \end{aligned}$$

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

	x	y
①	0	4
②	2	7
③	4	10



$$\begin{aligned} \textcircled{1} \quad y &= \frac{3}{2}(0) + 4 \\ y &= 4 \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad y &= \frac{3}{2}(2) + 4 \\ y &= \frac{6}{2} + 4 \\ y &= 3 + 4 \rightarrow 7 \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad y &= \frac{3}{2}(4) + 4 \\ &= \frac{12}{2} + 4 \rightarrow 6 + 4 \rightarrow 10 \end{aligned}$$

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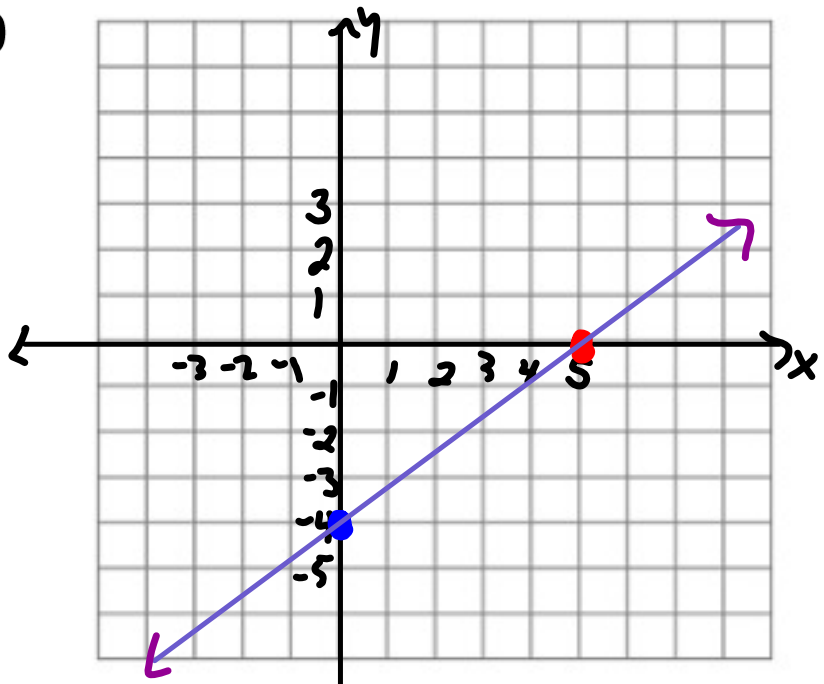
a. Find the x intercept and the y intercept

b. Sketch the graph. Be detailed with your graph.

***Do any scrap work needed below the line at the bottom of the page

3.

$$4x - 5y = 20$$



$$\boxed{x\text{-int}} \quad (y=0)$$

$$4x - 5(0) = 20$$

$$\frac{4x}{4} = \frac{20}{4}$$

$$\boxed{x=5}$$

$$(5, 0)$$

$$\boxed{y\text{-int}} \quad (x=0)$$

$$4(0) - 5y = 20$$

$$\frac{-5y}{-5} = \frac{20}{-5}$$

$$\boxed{y=-4}$$

$$(0, -4)$$

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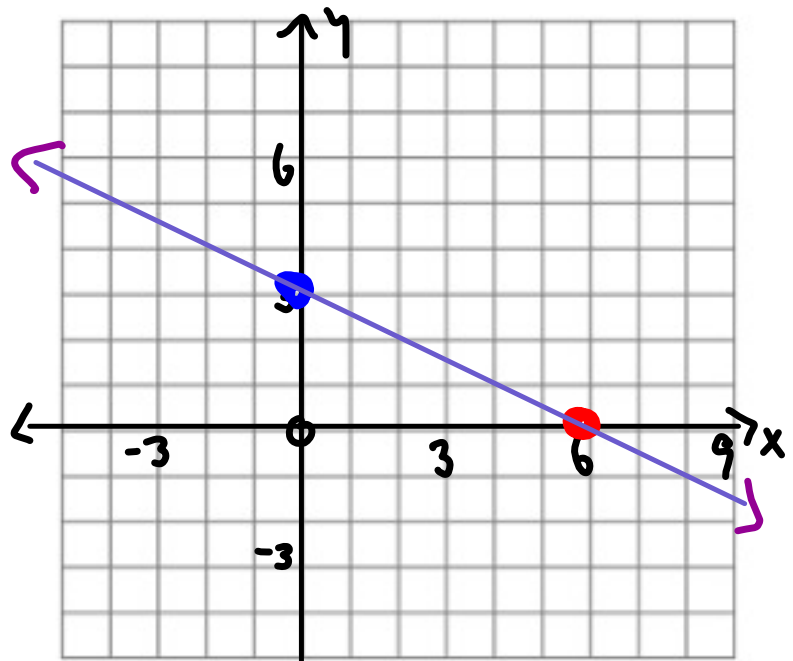
For each of the following linear equations,

- Find the x intercept and the y intercept
- Sketch the graph. Be detailed with your graph.

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4.

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



$$\boxed{x-1\pi} (y=0)$$

$$\frac{1}{2}x + 0 = 3$$

$$\left(\frac{2}{1}\right) \frac{1}{2}x = 3 (2)$$

$$\boxed{x=6}$$

$$(6, 0)$$

$$\boxed{y-1\pi} (x=0)$$

$$\frac{1}{2}(0) + y = 3$$

$$\boxed{y=3}$$

$$(0, 3)$$