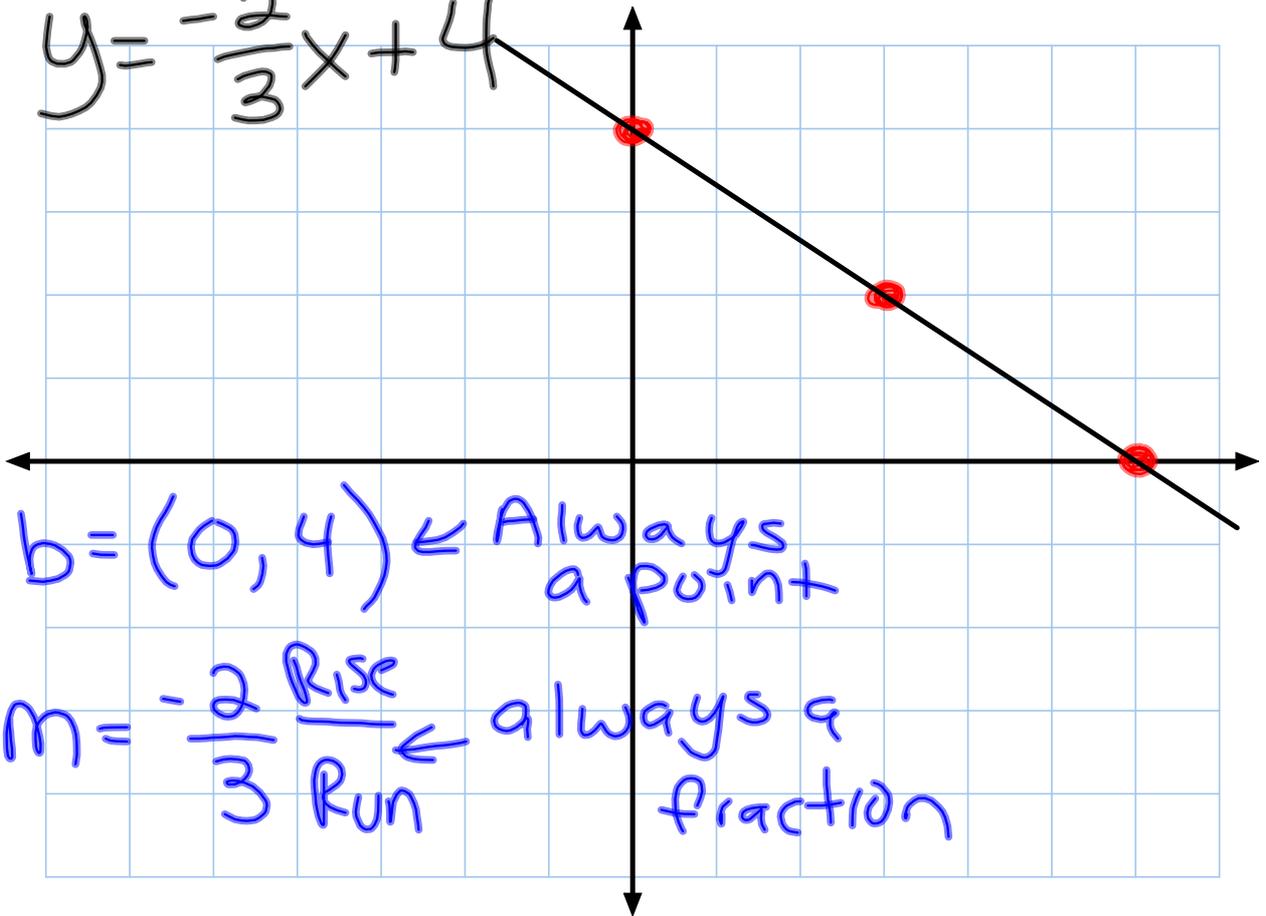


$$y = -\frac{2}{3}x + 4$$



$$Ax + By = C$$

Intercept form  
Standard form

$$y = mx + b$$

Slope - Intercept

$$2x + 3y = 12$$

$$y = 0 \quad 2x + 3(0) = 12$$

$$x = 6$$

$$\frac{2x}{2} = \frac{12}{2}$$

$$\begin{pmatrix} 6, 0 \\ x, y \end{pmatrix}$$

$$x = 6$$

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$$x = 0$$

$$2(0) + 3y = 12$$

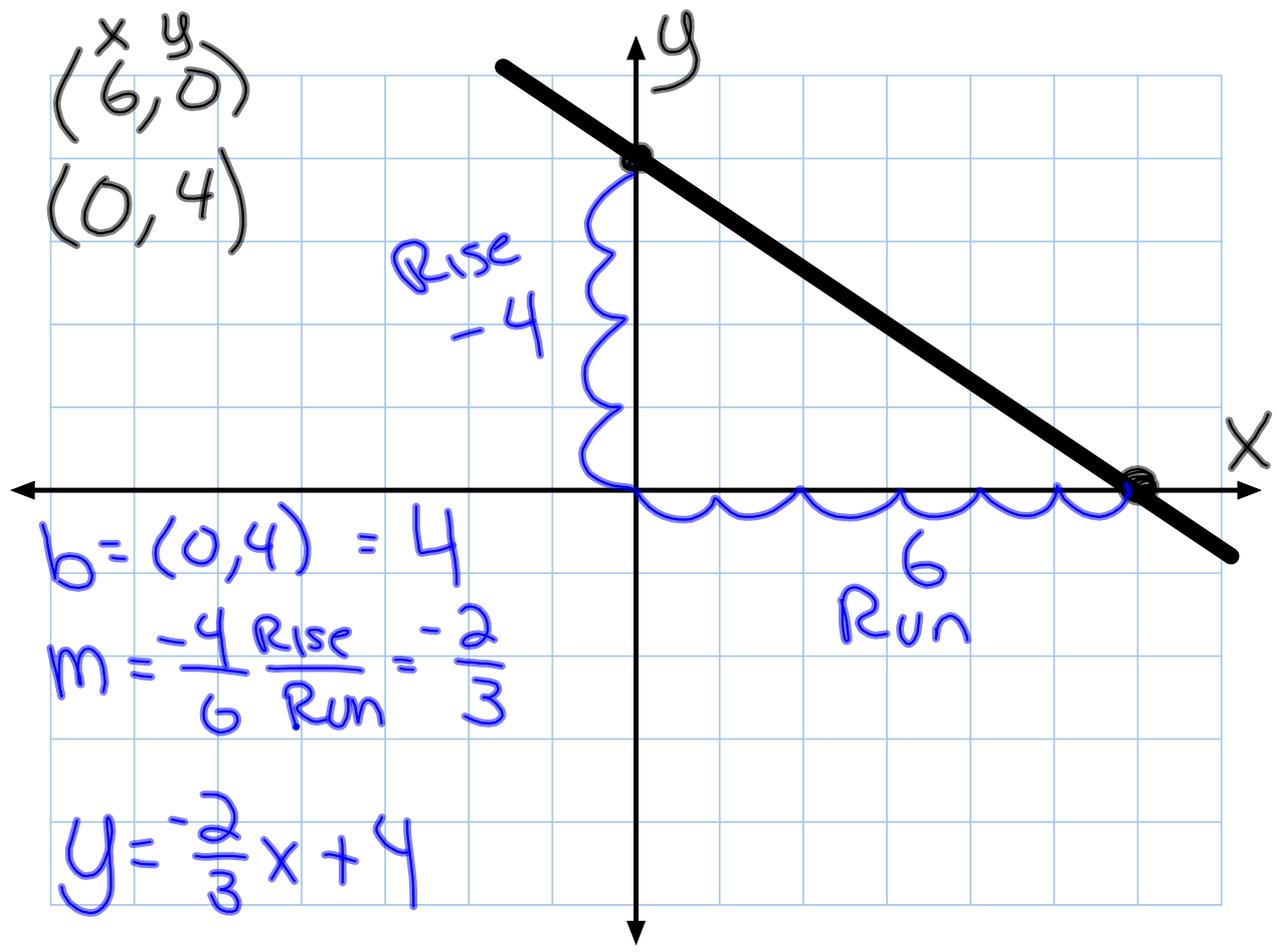
$$y = 4$$

$$\frac{3y}{3} = \frac{12}{3}$$

$$(0, 4)$$

$$y = 4$$

$\begin{matrix} x & y \\ (6, 0) \\ (0, 4) \end{matrix}$



$$b = (0, 4) = 4$$

$$m = \frac{-4 \text{ Rise}}{6 \text{ Run}} = -\frac{2}{3}$$

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

$$2x + y = 8$$

$$y = 0 \quad 2x + 0 = 8$$

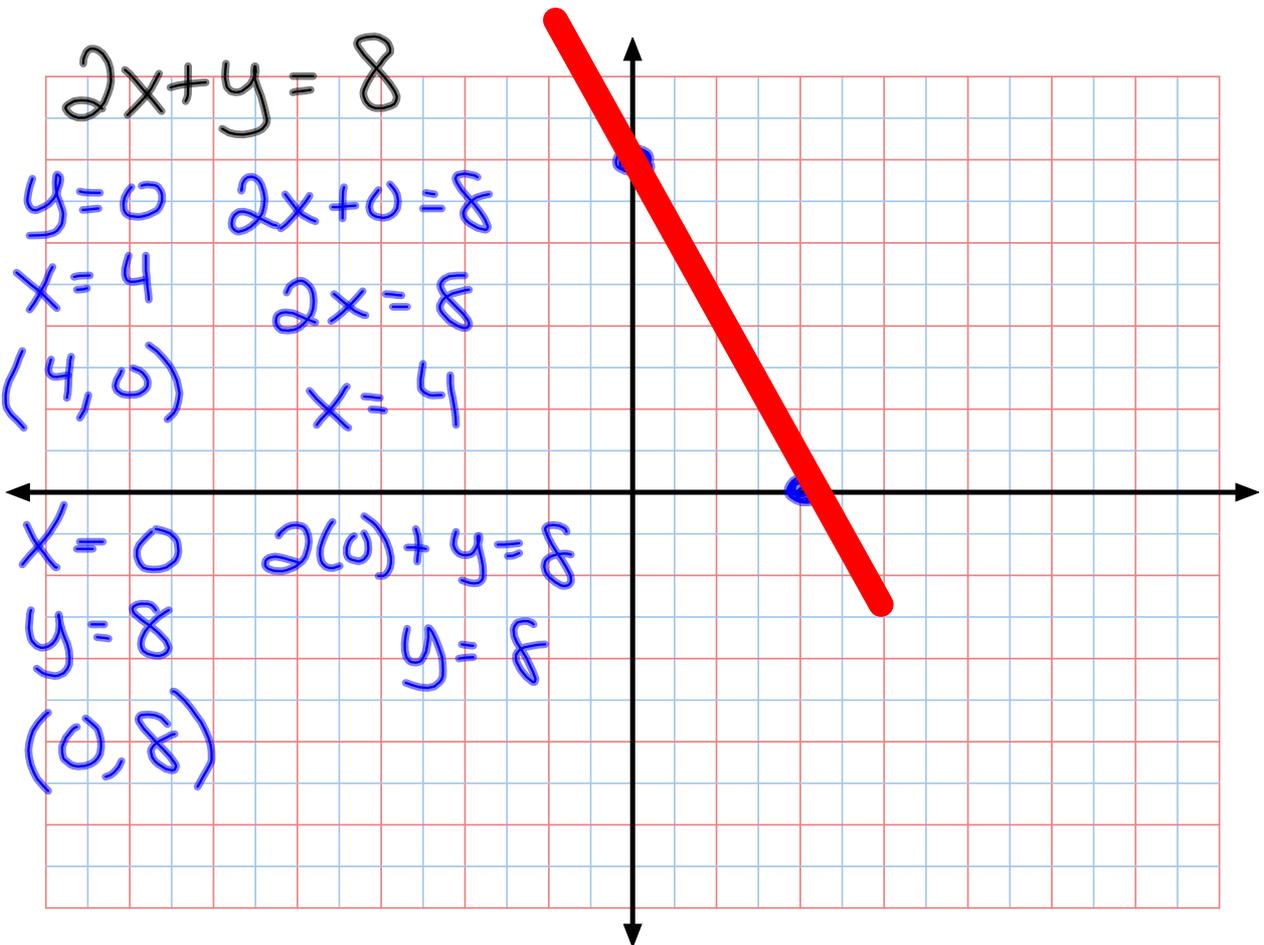
$$x = 4 \quad 2x = 8$$

$$(4, 0) \quad x = 4$$

$$x = 0 \quad 2(0) + y = 8$$

$$y = 8 \quad y = 8$$

$$(0, 8)$$



$$3x - 2y = 6$$

$$y = 0 \quad \frac{3x}{3} = \frac{6}{3}$$

$$x = 2$$

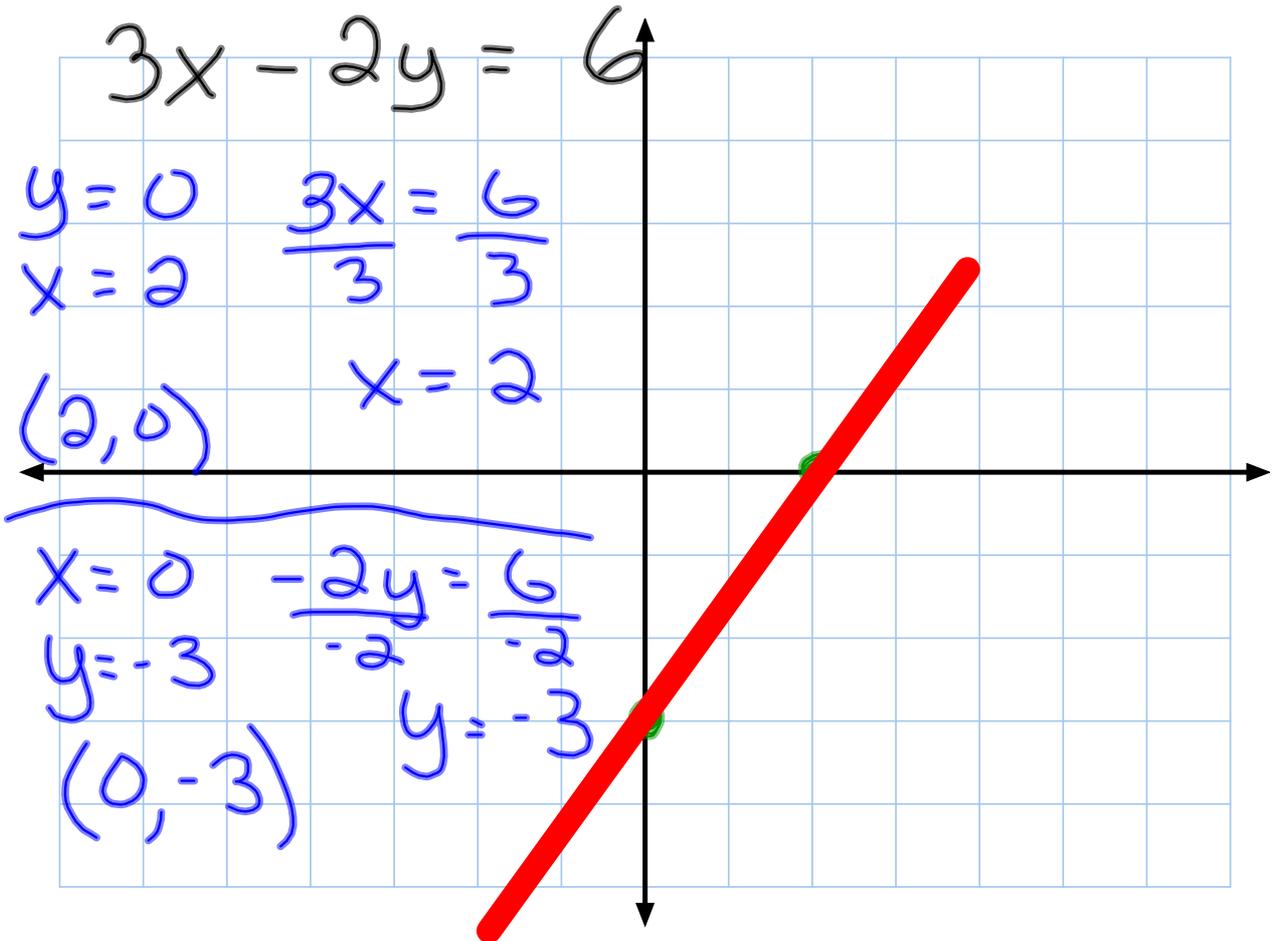
$$(2, 0) \quad x = 2$$

---

$$x = 0 \quad \frac{-2y}{-2} = \frac{6}{-2}$$

$$y = -3$$

$$(0, -3) \quad y = -3$$



$$5x - 6y = -2 \rightarrow y = mx + b$$

$$y = 0 \quad 5x - 6(0) = -2$$

$$x = -2/5 \quad \frac{5x}{5} = \frac{-2}{5}$$

$$\left(-\frac{2}{5}, 0\right) \quad x = -\frac{2}{5}$$

---

$$x = 0$$

$$y = 1/3$$

$$\left(0, \frac{1}{3}\right)$$

$$5(0) - 6y = -2$$

$$\frac{-6y}{-6} = \frac{-2}{-6}$$

$$y = 1/3$$

$(-\frac{2}{5}, 0)$

$(0, \frac{1}{3})$

