

Algebra 1 TUESDAY 11-20-12 **Class Notes**

⑤ $2x - 4y = 4$ X and Y intercepts

Home-work Review

Kayla!
I will miss you.

Mr. C

$$X_{INT} \Rightarrow y = 0$$

$$2x - 4(0) = 4$$

$$\frac{2x}{2} = \frac{4}{2}$$

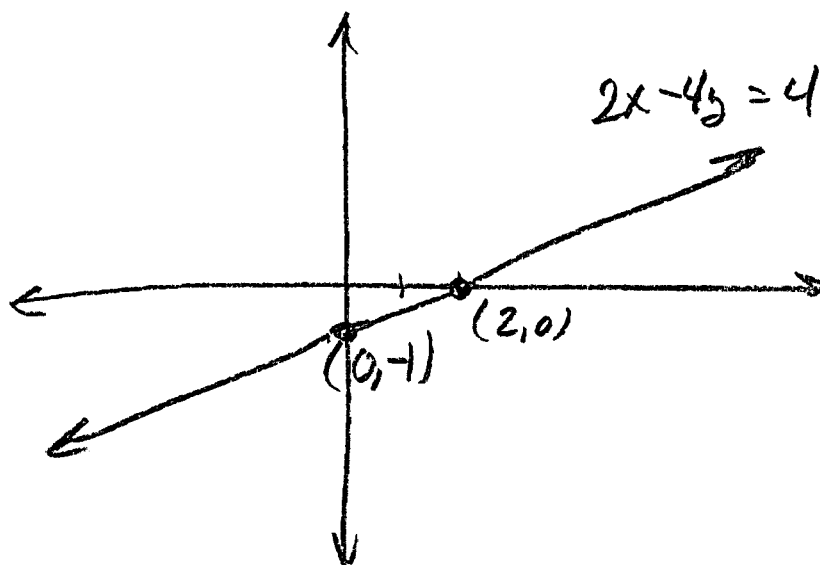
$$x = 2$$

X-intercept

✓ $Y_{int} \Rightarrow x = 0$

$$\cancel{2(0)} - \frac{4y}{-4} = \frac{4}{-4}$$

$$y = -1 \text{ Y-intercept}$$



$$\textcircled{6} \quad \begin{array}{cc} -2y = 3x - 6 \\ \uparrow \quad \quad \uparrow \\ -3x \quad -3x \end{array}$$

$$\begin{array}{c} -3x - 2y = -6 \\ \uparrow \end{array}$$

$$\textcircled{3x + 2y = 6}$$

$\uparrow \quad \quad \uparrow \quad \quad \uparrow$
 $A \quad \quad B \quad \quad C$

$$X_{\text{INT}} \Rightarrow y = 0$$

$$\frac{3x}{3} + \frac{2(0)}{2} = \frac{6}{3}$$

$$\begin{array}{c} \textcircled{x = 2} \quad X_{\text{INT}} \\ \boxed{(2, 0)} \end{array}$$

$$Ax + By = C$$

$\uparrow$

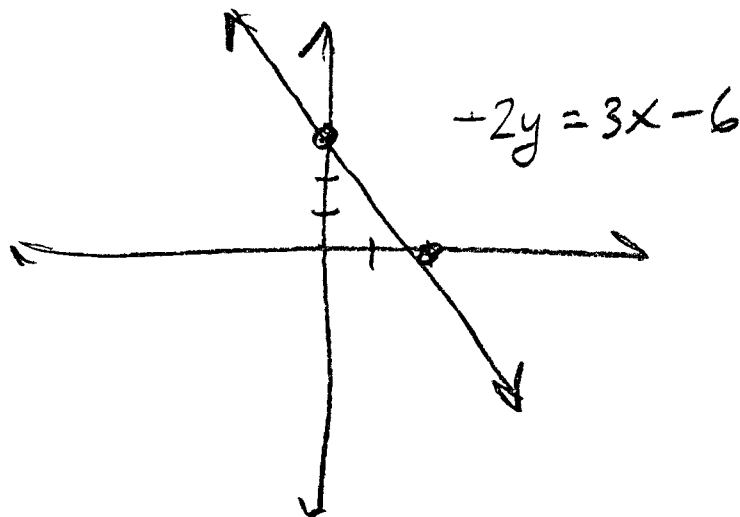
$$A > 0$$

A, B, C cannot be fractions

$$y_{\text{INT}} \Rightarrow x = 0$$

$$\frac{3(0)}{3} + \frac{2y}{2} = \frac{6}{2}$$

$$\begin{array}{c} y_{\text{INT}} \quad \textcircled{y = 3} \\ \boxed{(0, 3)} \end{array}$$



⑦

$$4y + 5x = 2y - 3x + 16$$

$\begin{matrix} +3x & & +3x \end{matrix}$

$$\boxed{Ax + By = C} \quad \text{Def. of Std Form}$$

$$8x + 4y = 2y + 16$$

$\begin{matrix} -2y & -2y \end{matrix}$

$$\frac{8x}{2} + \frac{2y}{2} = \frac{16}{2}$$

$$\boxed{4x + y = 8}$$

$\begin{matrix} \uparrow & \uparrow & \uparrow \\ A & B & C \end{matrix}$

$$x_{\text{int}} \Rightarrow y = 0$$

$$4x = 8 \quad \therefore \boxed{x_{\text{int}} = 2} \quad \begin{matrix} (2, 0) \\ x \quad y \end{matrix}$$

$$y_{\text{int}} \Rightarrow x = 0$$

$$\cancel{4(0)} + y = 8 \quad \therefore \boxed{y_{\text{int}} = 8} \quad \begin{matrix} (0, 8) \\ x \quad y \end{matrix}$$

