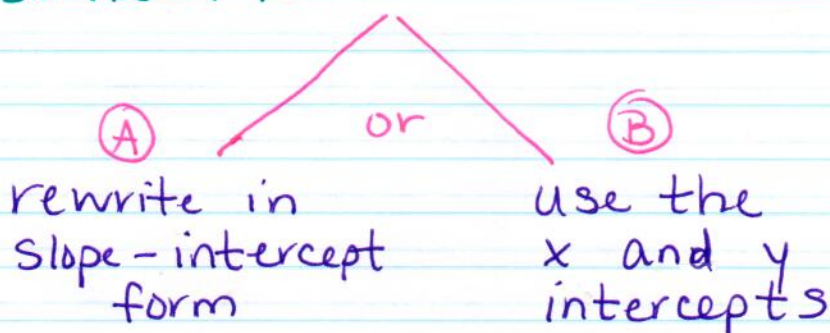


4.5 Standard Form of a Linear Equation p174

$$ax + by = c$$

where a and b are not both zero

Graph a linear equation that is in standard form:



$$-2x + 3y = -6$$

Ⓐ

$$\begin{aligned} -2x + 3y &= -6 \\ 3y &= 2x - 6 \\ y &= \frac{2}{3}x - 2 \end{aligned}$$

Ⓑ

x-intercept
 $y = 0$

$$\begin{aligned} -2x + 3(0) &= -6 \\ -2x &= -6 \\ x &= 3 \\ (3, 0) \end{aligned}$$

y-intercept
 $x = 0$

$$\begin{aligned} -2(0) + 3y &= -6 \\ 3y &= -6 \\ y &= -2 \\ (0, -2) \end{aligned}$$