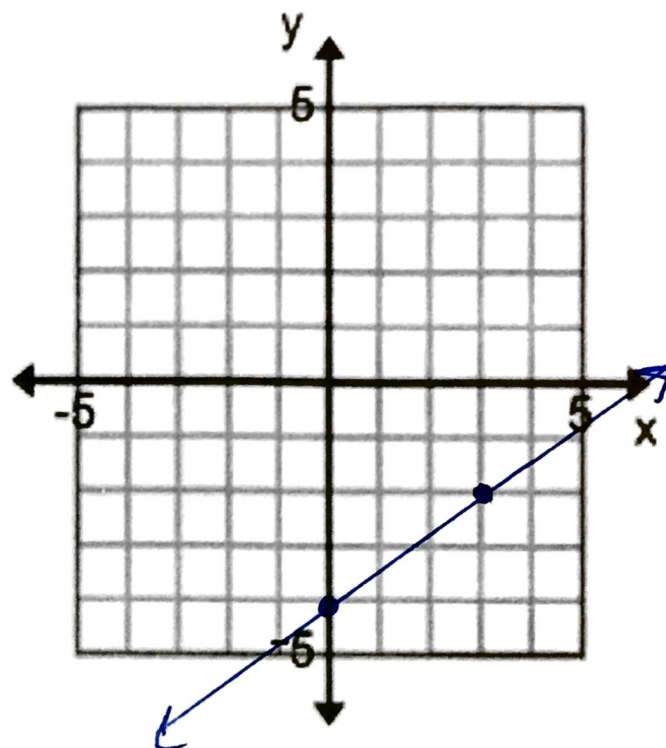


Ex. 1: Use the slope and the y -intercept to graph.

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



Ex. 2: Use the x - and y -intercepts to graph.

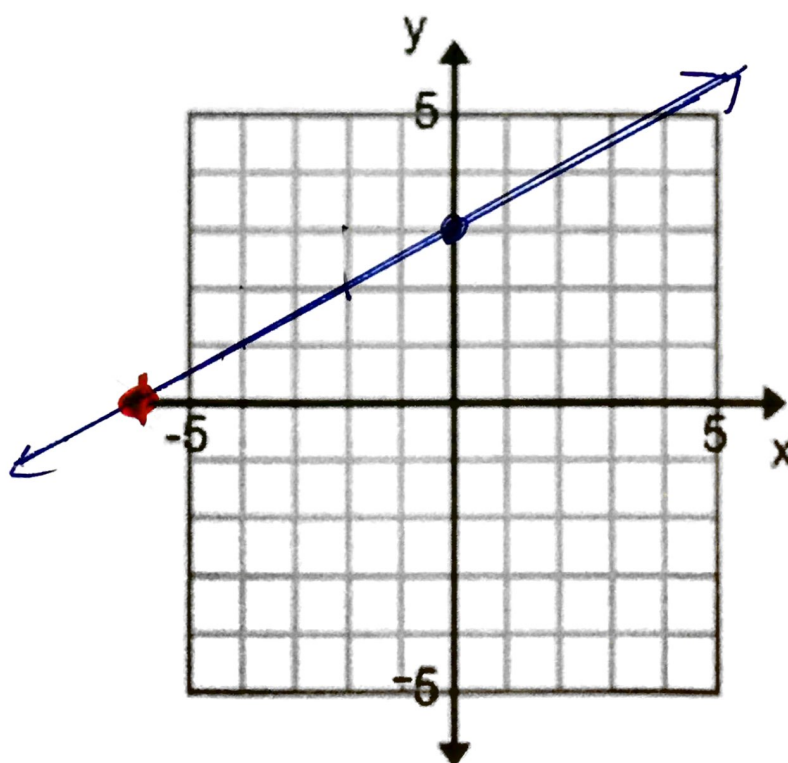
$$-2x + 4y = 12$$

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

$$x = -6$$

$$\frac{4y}{4} = \frac{12}{4}$$

$$y = 3$$



Change to slope-intercept form:

$$Ax + By = C$$

$$Ax + By = C$$

$$y = mx + b$$

Change to slope-intercept form. (Solve for y).

Ex.3 : $7x - 5y = 35$

$$\begin{array}{r} -7x \\ \hline -5y = -7x + 35 \\ \hline -5 \quad -5 \quad \boxed{\frac{+35}{-5}} \\ \hline y = \frac{7x}{5} - 7 \end{array}$$

Ex.4: Change the following equation to slope-intercept form and graph.

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

$$\begin{array}{r} +2x \\ \hline 3y = 2x + 6 \\ \hline \frac{3y}{3} = \frac{2x}{3} + \frac{6}{3} \\ \hline y = \frac{2}{3}x + 2 \end{array}$$

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

