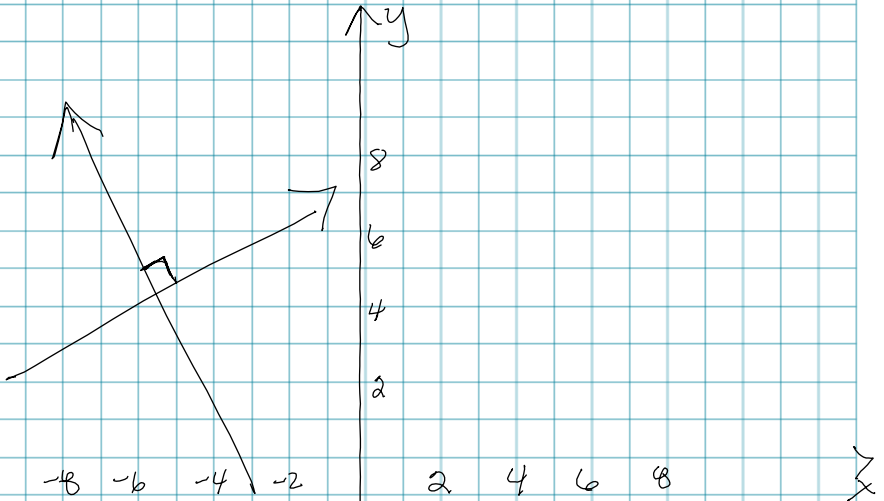


B) Through $(-4, 8)$; perpendicular to
 $2x - 3y = 1$



~~$f(x) = \frac{2}{3}x - \frac{1}{3}$~~

$f(x) = -\frac{3}{2}x + 2$

$\frac{2}{3}$ $-\frac{3}{2}$

$f(x) = -\frac{3}{2}x + 2$

cont.

$$\begin{array}{r} 2x - 3y = 1 \\ -2x \quad \quad 0 \quad -2x \\ \hline \end{array}$$

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

$$m = \frac{2}{3}$$

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

$$\perp m = -\frac{3}{2} \quad (-4, 8)$$

Point Slope Form

$$y - y_1 = m(x - x_1)$$

$$y - 8 = -\frac{3}{2}(x + 4)$$

$$y - 8 = -\frac{3}{2}x - 6$$

+8

+8

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

$$\begin{array}{r} x - (-4) \\ \hline \frac{-3 \cdot 4}{2} \\ \hline = -6 \end{array}$$