

Final Review 2

Get into $y = mx + b$ form, then state the slope (m) and y -intercept (b)

$$\begin{aligned} \textcircled{1} \quad 3x + 2y &= 8 \\ -3x \quad -3x & \\ \hline 2y &= -3x + 8 \\ \frac{2y}{2} &= \frac{-3x}{2} + \frac{8}{2} \\ y &= -\frac{3}{2}x + 4 \\ m &= -\frac{3}{2} \quad b = 4 \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad 4x + y &= 12 \\ -4x \quad -4x & \\ \hline y &= -4x + 12 \\ m &= -4 \quad b = 12 \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad -7x + 7y &= 14 \\ +7x \quad +7x & \\ \hline 7y &= \frac{7x}{7} + \frac{14}{7} \\ y &= \frac{1}{1}x + 2 \\ m &= 1 \quad b = 2 \end{aligned}$$

Find the slope:

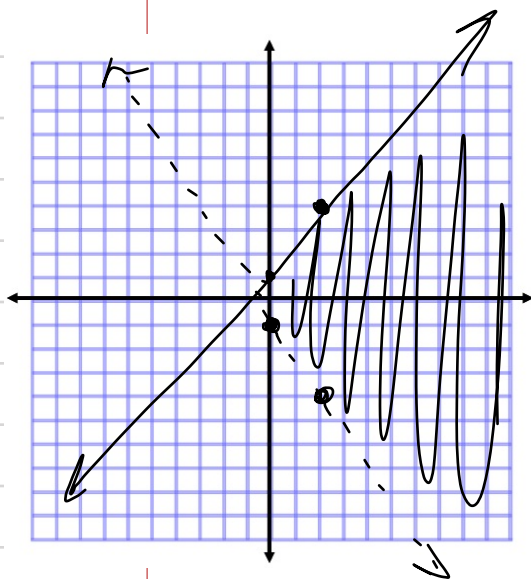
$$\begin{aligned} \textcircled{4} \quad (3, 2) \quad (1, -8) \\ \frac{-8 - 2}{1 - 3} &= \frac{-10}{-2} = 5 \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad (-7, 6) \quad (-1, 1) \\ \frac{1 - 6}{-1 - (-7)} &= \frac{-5}{6} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad (4, 3) \quad (2, 1) \\ \frac{1 - 3}{2 - 4} &= \frac{-2}{-2} = 1 \end{aligned}$$

Solve by graphing

$$\begin{aligned} \textcircled{4} \quad y &\leq \frac{3}{2}x + 1 \\ y &> -\frac{3}{2}x - 1 \end{aligned}$$



$$\textcircled{5} \quad y \geq \frac{1}{5}x - 3$$

$$y > -5x - 3$$

