

Rewrite to $y = mx + b$ form

Ex. Find the slope and y-intercept:

*Must be in $y = mx + b$ form (the slope-intercept form of a line)

a) $4x + 10y = 20$
 ~~$4x$~~ ~~$10y$~~

$$\frac{10y}{10} = \frac{-4x}{10} + \frac{20}{10}$$

$$y = -\frac{2}{5}x + 2$$

$$m = -\frac{2}{5}$$
$$b = 2$$

b) $6x - 10y = 10$
 ~~$6x$~~ ~~$10y$~~

$$\frac{-10y}{-10} = \frac{-6x}{-10} + \frac{10}{-10}$$

$$y = \frac{3}{5}x - 1$$

$$m = \frac{3}{5}$$
$$b = -1$$

c) $8x - 12y + 6 = 0$
 ~~$12y$~~ ~~$12y$~~

$$\frac{8x + 6}{12} = \frac{12y}{12}$$

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

$$mx + b = y$$

$$m = \frac{2}{3}$$
$$b = \frac{1}{2}$$

d) $5x + 4y = -8$
 ~~$5x$~~ ~~$4y$~~

$$\frac{4y}{4} = \frac{-5x - 8}{4}$$

$$y = -\frac{5}{4}x - 2$$

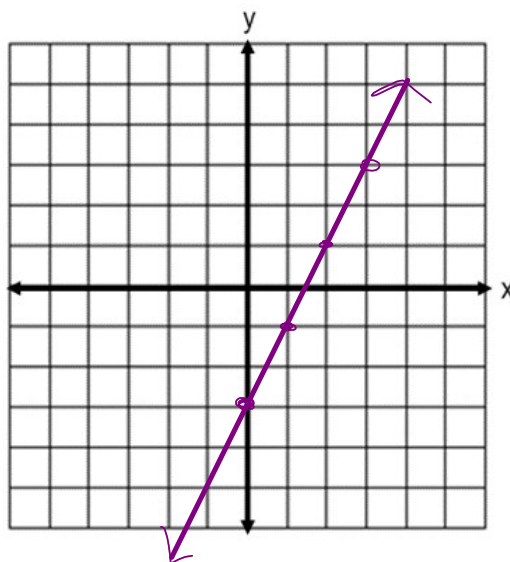
$$m = -\frac{5}{4}$$
$$b = -2$$

Graph: *Must be in $y = mx + b$ form

Ex 1) $\frac{2y}{2} = \frac{4x}{2} - \frac{6}{2}$

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

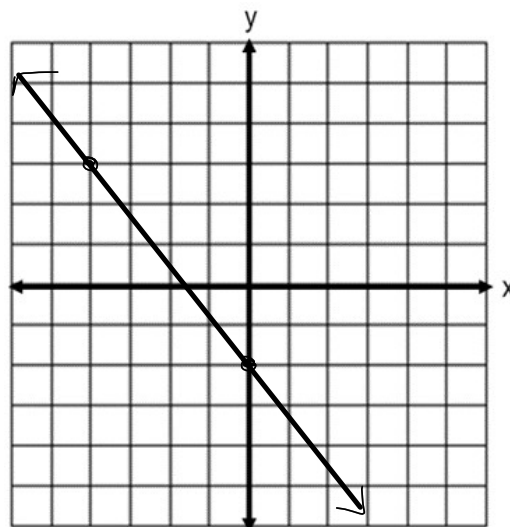
$\frac{2}{1} \uparrow$
 \rightarrow



Ex 2) $\frac{5x}{-5} + \frac{4y}{-5} = \frac{-8}{-5}$

$4y = -5x - 8$

$y = -\frac{5}{4}x - 2$



Ex 3) $\frac{2x}{2} = \frac{-6}{2}$

$x = -3$

Gold WS

Quiz \rightarrow monday
(Distance, Midpoint
+ Slope)

