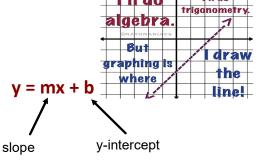
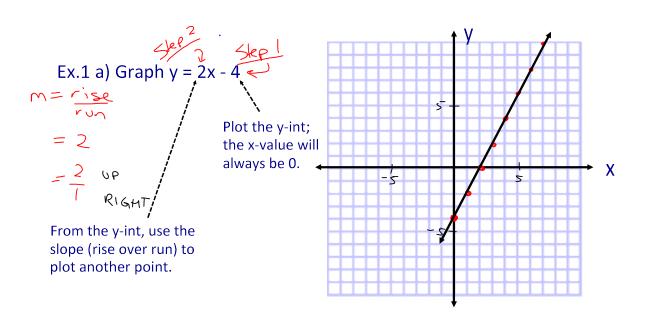
4.5 Graphing Linear Relations
Using Slope and y-intercept

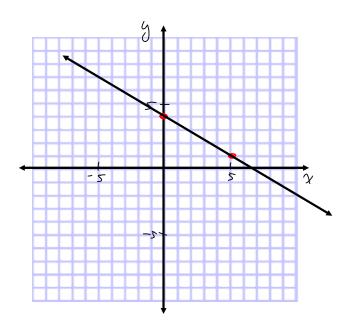
RECALL: Slope-Intercept Form y = mx + b





b) 
$$y = \frac{-3}{5}x + 4$$

$$M = \frac{-3}{5} \in \text{down } 3$$

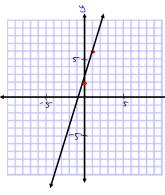


Practice... Graph from slope y-intercept form.

Ex. 2 a) 
$$y = 4x + 2$$

m = 4

$$=\frac{4}{1}$$
 UP right

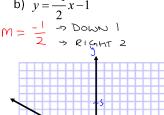


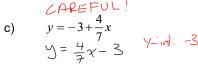
- Communication
- -arrows on axes
- -x and y axis labelled -show scale on x and y axis
- -arrows on line
- -line is labeled with equation
- -line extends to edges of graph

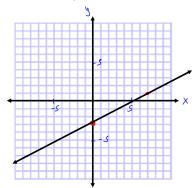
b) 
$$y = \frac{-1}{2}x - 1$$

$$M = \frac{-1}{2} \Rightarrow DOWN \mid$$

$$\Rightarrow RIGHT 2$$







Solve for y =

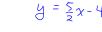
$$5x - 2y = 8$$

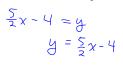
$$5x - 8 = 2y$$

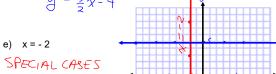
$$2x - 8 = 3$$

$$\frac{5x-8}{2}=\frac{2y}{2}$$

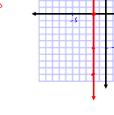
$$\frac{5}{2}x - 4 = y$$











Ex. 3 What is the equation of the line?  $\bigcirc = \bigcirc \times + \bigcirc$ 

