## Graphing Linear Equations (lines) Review

$$y = mx + b$$
  $m = slope$   $b = y$ -intercept

How to graph a line:

- 1. Make sure the equation is in Slope Intercept Form y = mx + b where m = slope and b = the y-intercept
- 2. Graph the *y*-intercept (the b value) on the *y*-axis
- 3. Starting from the b value plotted on the *y*-axis, use the slope (the m value) to find your  $2^{nd}$  and  $3^{rd}$  point  $(\frac{rise}{run})$
- 4. Draw a line connecting these points

Find the slope of each line:

a) 
$$y = -\frac{3}{2}x - 2$$
 b)  $y = \frac{1}{2}x - 4$  c)  $y = 6$  d)  $y = x - 4$ 

Ex 1) Graph 
$$y = \frac{3}{4}x + 2$$
 Ex 2)  $y = x + 3$ 





Ex 4) 
$$y = \frac{7}{2}x - 2$$





Ex 5) Graph y = 3

Ex 6) Graph x = 5



