Algebra OPFI Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**U4 LT6 Graphing Slope Intercept Form**

*LT 6: SWBAT graph a linear function.*

Slope (m) =

y-intercept (b) =

Success Criteria:

Slope Intercept Form

y = mx + b

Ex 1. Find the slope and y–intercept of You Try.... Find the slope and y–intercept of

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

Slope: Slope:

Inc or Dec? Inc or Dec?

y-intercept: y-intercept:

*Graphing using the slope/y-intercept*

Ex 2: Graph the following.

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

Slope:

Inc or Dec:

y –intercept:



Steps to graph using Slope Intercept Form

1.)

2.)

3.)

Ex 5: Graph the following.

$$y=-x-4$$

Slope:

Inc or Dec:

y –intercept:

Ex 4: Graph the following.

$$y=-4x+2$$

Slope:

Inc or Dec:

y –intercept:

Ex 3: Graph the following.

$$y=2x-7$$

Slope:

Inc or Dec:

y –intercept:





You Try: Graph the following.

$$y=x+1$$

Slope:

Inc or Dec:

y –intercept:

You Try: Graph the following.

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

Slope:

Inc or Dec:

y –intercept:

You Try: Graph the following.

$$y=2x$$

Slope:

Inc or Dec:

y –intercept:

Practice

1.) y = -x + 2 2.) $y=3x+4$

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

5.) y = x - 3 6.) $y=\frac{3}{2}x+6$



7.) y = -3x + 6 8.) $y=\frac{4}{5}x$

9.) y = x 10.) $y=-\frac{2}{3}x+3$

11.) y = x + 2 12.) $y=-\frac{1}{3}x+2$

