## **Graphing Lines in the Coordinate Plane**

## **Graphing with a Table**

1. Set-up your <u>TABLE</u>

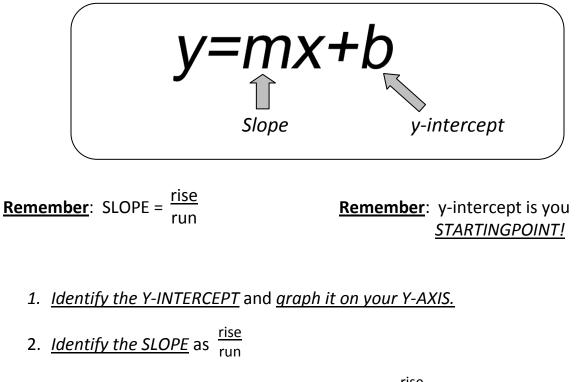
( _	Х	(equation)	у	(x,y)

2. <u>Choose 5 values</u> for x.

HINT: Use 0, 1,2,3,4

- 3. <u>Substitute each value</u> into your equation and <u>SOLVE</u>.
- 4. <u>GRAPH</u> each set of <u>coordinates.</u>
- 5. <u>CONNECT the POINTS</u> and write the <u>EQUATION on the LINE</u>.

## **Graphing Using Slope-Intercept Form**



3. <u>From your y-intercept point</u>, move using the  $\frac{rise}{run}$ 

- 4. <u>Repeat this step</u> to graph 4 points.
- 5. <u>CONNECT the POINTS</u> and write the <u>EQUATION on the LINE</u>.

## Writing the Equation of a Line

1. Identify <u>WHERE the LINE meets the Y-AXIS</u>.

Your coordinate should look like this (0,number)

2. The <u>second number in your coordinate is the <u>Y-INTERCEPT.</u></u>

- 3. Now, <u>get from that point to the next</u> point using only run
- 4. The number of spaces you *move up or down is your RISE*.

The number of spaces you *move right or left is your RUN*.