PARTS OF A GRAPH

2.0 SLOPE NOTES

Name _____

- Origin (0, 0)
- X-axis
- Y-axis
- Quadrant I (Q I)
- Quadrant 2 (Q II)
- Quadrant 3 (Q III)
- Quadrant 4 (Q IV)
- Point (x, y)
- Line (y = mx + b)
- X-intercept (a, 0)
- Y-intercept (0, b)

$x_2 - x_1$ (run)

$y_2 - y_1$ (rise)

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

(x_2, y_2)

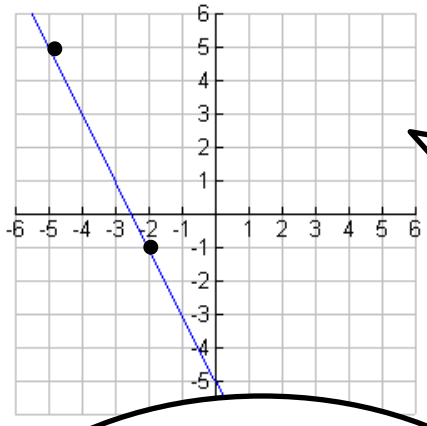
(x_1, y_1)

SLOPE

Types of Slopes

- **Positive Slope**
- **Negative Slope**
- **Zero Slope**
- **No Slope**

Draw an example of each type of slope



Calculate the slope given two points on a graph.

OH NO!!!
No Slope

Use the slope formula to calculate the slope given two points. (1, 6), (3, -2)

Draw a line that goes through (-2, 1) and has a slope of 3.