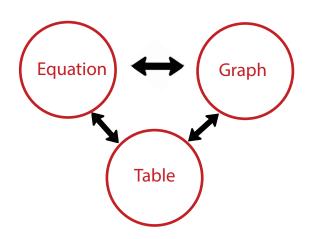
Interpreting Functions

Equations, Graphs, and Tables are all able to be converted and created from one another



Example: y=x+1

$$y = (-2) + 1 = -1 \longrightarrow (-2,-1)$$

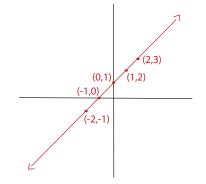
$$y = (-1) + 1 = 0 \longrightarrow (-1,0)$$

$$y = (0) + 1 = 1 \longrightarrow (0,1)$$

$$y = (1) + 1 = 2 \longrightarrow (1,2)$$

$$y = (2) + 1 = 3 \longrightarrow (2,3)$$

X	У
-2	-1
-1	0
0	1
1	2
2	3



Key Features of Graph

- y-intercept
 - *Where a graph crosses the y-axis and there can be more than 1 or none
- x-intercept
 - *Where a graph crosses the y-axis and there can be more than 1 or none
- Vertex
 - *The minimum(lowest) or maximum(highest) value of graph. There is either one or none
- Decreasing
 - *Where the graphs y-values are getting smaller. It switches to increasing at the vertex.
- Increasing
 - *Where the graphs y-values are getting larger. It switches to decreasing at the vertex.
- Positive
 - *This line show were the graph is considered positive i.e. anywhere it is ABOVE the x-axis
- Negative
 - *This line show were the graph is considered negative i.e. anywhere it is BELOW the x-axis

