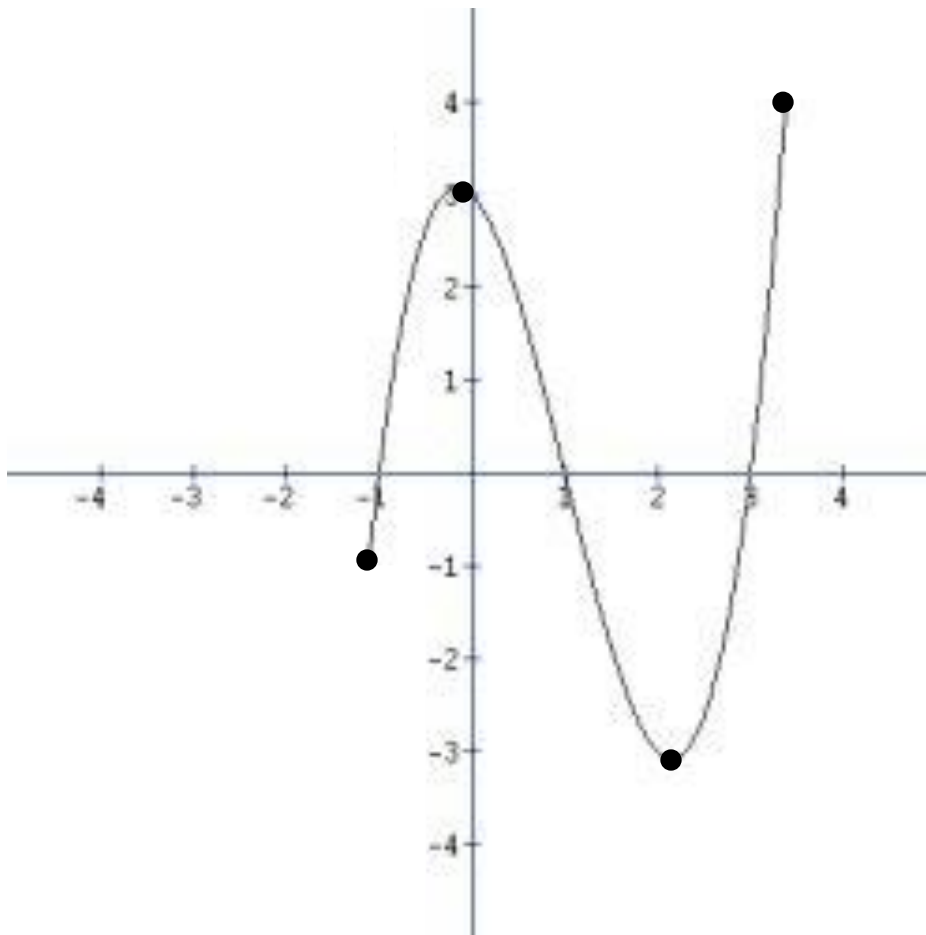


Characteristics of Graphs

Absolute Maximum: The highest y-value on a graph

Absolute Minimum: The lowest y-value on a graph

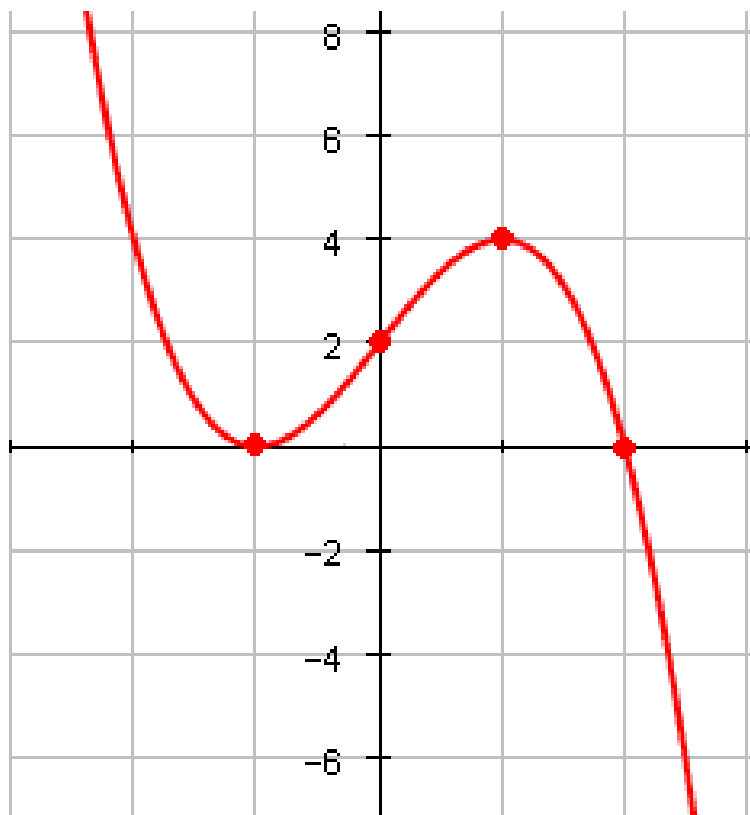


Abs. Max: $y = 4$

Abs. Min: $y = -3$

Relative Maximum: The point at the top of a “hill”

Relative Minimum: The point at the bottom of a “valley”



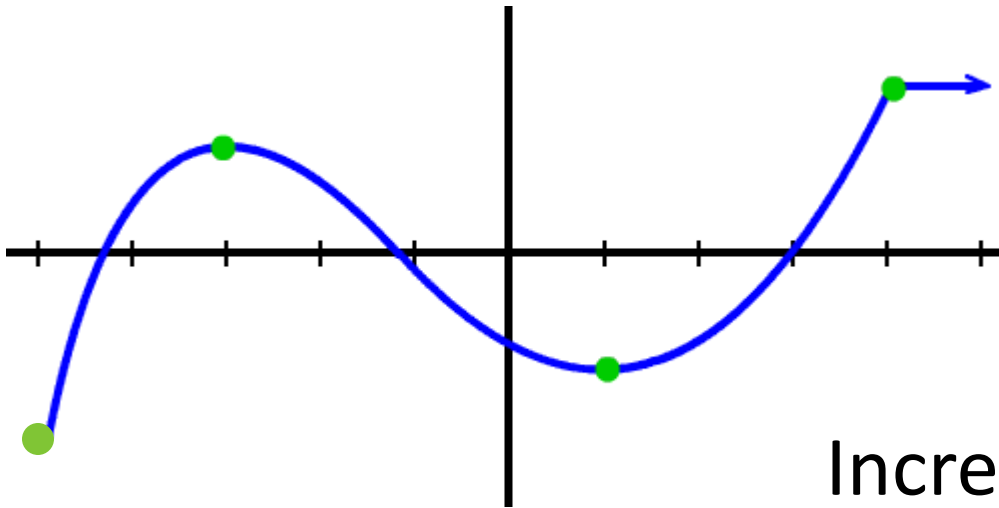
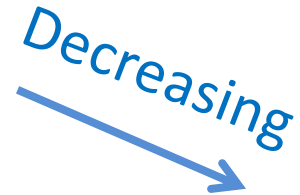
Relative Max: (2, 4)

Relative Min: (-2, 0)

Increasing Interval: where the function has a positive slope (going up)

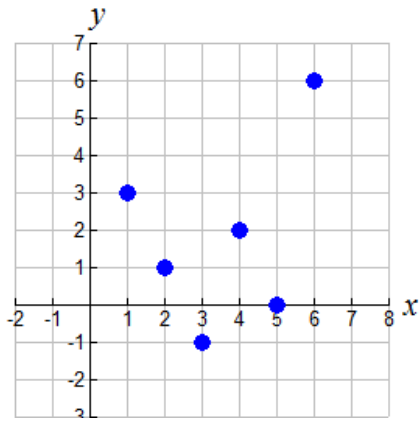


Decreasing Interval: where the function has a negative slope (moving downward)

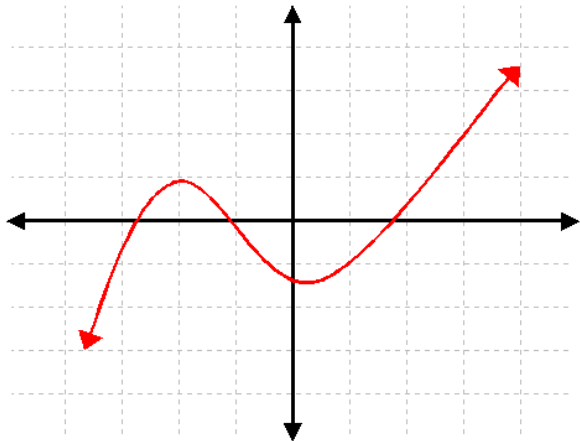


Increasing: $(-5, -3) \cup (1, 4)$

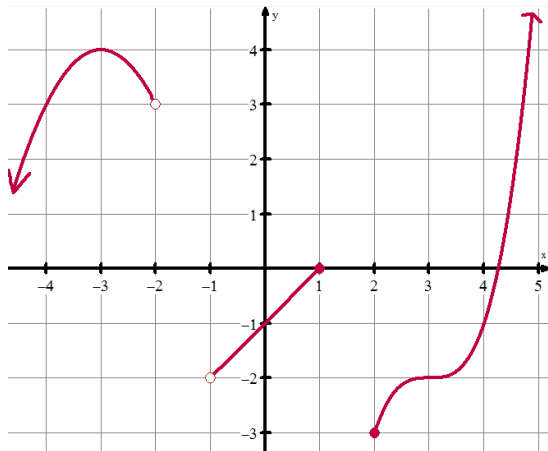
Decreasing: $(-3, 1)$



Discrete: unconnected graph,
just data points



Continuous: connected graph,
no breaks or holes



Discontinuous: a line that has at
least one break or hole

Finite Interval: An interval that is a set length.

Ex) $(4, 10]$

Infinite Interval: An interval that goes to infinity in one or both directions.

Ex) $(-\infty, 3]$