## MTH 30 LECTURE NOTES (Ojakian)

## Topic 3: Graph Behavior

## OUTLINE

(References: 1.3)

1. Increasing and Descreasing
2. Max and Min
3. Note: Skipping average value
4. Some funny words
(a) "input" = "at" = "where" = "when"
(b) "output" = "value"
(c) Problem: Draw a graph and use this terminology
5. Going up and going down
(a) increasing
(b) decreasing
(c) Do 1.3: 19, 21
6. Absolute Extrema
(a) Absolute max
(b) Absolute min
(c) Do: Basic example
(d) Problem: Consider graphs in 1.3-19, 21
(e) Problem:

Find a graph with 1) no absolute extrema, 2) just an absolute max, 3) just an absolute min
4. Local Extrema
(a) Local max
(b) Local min
(c) Do: Local extrema for 1.3: 19
(d) Probelm: Find a graph with no local extrema

