

Test 2

FORMULAS

Date

Tuesday, Oct. 6, 2009

Time

9:30 – 10:45 a.m. or
11:00 – 12:15

Chapters

2.1 – 2.3, 2.5, 2.7

- Increasing/Decreasing-“read” graph from left to right; use x-values to denote
- Relative min = “valley” Relative max = “hill”
min/max value = y-value
- First derivative – find critical values by setting 1st derivative = 0, then test using sign chart to determine where graph is increasing/decreasing
- Second derivative – set 2nd derivative = 0 and test these values using a sign chart to determine concavity
- Inflection Point – point where graph changes concavity
- Substitute x-value into original function to get y-value of a coordinate (point)
- “Optimization” = finding minimum or maximum..... use derivatives
- Your notes: