

MATH 150

Today

1. Review for Exam II

Goals:

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1. Logistics:
 - (a) Start 5 minutes early, go 5 minutes late.
 - (b) No need to simplify answers.
 - (c) Desmos and graphing calculators are okay to use.
2. The derivative
 - (a) Definition
 - (b) Interpretation
 - (c) Derivative rules (Constant Multiple, Sum/Difference, Product, Quotient, Chain)
 - (d) Implicit differentiation
3. Using the derivative
 - (a) The Mean Value Theorem/Rolle's Theorem
 - (b) Curve sketching with the first and second derivatives (maxes and mins, concavity, inflection points, ...)
 - (c) Finding local and global extrema (including first and second derivative tests)
 - (d) Optimization word problems
4. Questions

Next Time

1. Exam II
2. After exam: Chapter 4: Algebra review