

Math 121 Day 1

- ① Discuss Graphing Calculator Requirement + ASD rental program.
- ② Discuss WebAssign + HW.
- ③ Discuss PQ options 1 & 2
- ④ Math + Study Skills Diagnostics
- ⑤ Study Skills Options
- ⑥ Tutoring Assignment

Overview of Course

Chapter 1 Functions

- 1.1 Linear, Real #s, Regression
- 1.2 Exponents
- 1.3 Linear + Quadratic
- 1.4 Polynomial, Rational, Exponential

Chapter 2 Derivatives

- 2.1 Limits and continuity
- 2.2 Rates of Change, Slopes, Derivatives
- 2.3 Differentiation formulas
- 2.4 Product and Quotient Rules
- 2.5. Higher-order derivatives
- 2.6 Chain Rule
- 2.7 Non-differentiable functions

Chapter 3 Applications of Derivatives

- 3.1 Graphing using first derivative
- 3.2 Graphing using 1st & 2nd derivatives
- 3.3 Optimization
- 3.4 Further applications of optimization.
- skip 3.5 → 3.6 Implicit Differentiation and related rates.
- 3.7 Differentials, Approximation, Marginal Analysis

Chapter 4 Exponential & Logarithmic Functions

- 4.1 Exponential functions
- 4.2 Logarithmic functions
- 4.3 Differentiation of log & Exp. functions
(skip 4.4)