Math 0120
Exam #2 Review
Chapters 3 and 4

Critical numbers of a function
Extreme points and inflection points of a function
Graphing a function using the first and second derivatives, including sign charts
  7 points for curve sketching
Optimization
  Continuous function on a closed interval
  Enclosures
  Profit
  Rectangular box
  Poster
  Harvest size
  Materials to construct a box, poster, or cylindrical container
  Inventory costs
  Pythagorean Theorem
  Optimization Problems
Implicit differentiation and related rates
Exponential functions
  Properties of exponents
  Domain and range
  Present and future value
 Logarithmic functions
  Properties of logarithms
  Domain and range
  Solving exponential growth and decay problems
Derivatives of exponential and logarithmic functions
  Tangent lines, implicit differentiation
Relative rate of growth
Elasticity of demand