Math 113-03
Topics to Review for Exam 1

Functions
  Domain and Natural Domain
  Vertical Line Test
  Composition and Inverses
  Exponential and Logarithmic Functions
  Trigonometric and Inverse Trigonometric Functions

Limits
  Types of limits: limits, one-sided, limits at infinity, infinite limits
  Know how to compute limits using graphs and rules
  Continuity

Derivatives
  Know the definition of the derivative and how to use it to find derivatives
  Know all derivative rules
  Know how to differentiate implicitly
  Differentiability: know how to determine if a function is differentiable at c

Applications of Derivatives
  Tangent lines
  Rates of change and related rates
  Curve sketching including asymptotes, increasing and decreasing, concavity, relative extrema, and inflection points
  L'Hopital’s Rule
  Absolute extrema
  Applied max/min problems