

MAC 2311 Final Exam Topics Guide

Limits – graphs
piecewise functions
to infinity
functions
one-sided

Continuity

Derivatives polynomials
Trig
Chain rule
Product rule
Quotient rule
Implicit
Higher order

Related Rates

Max/Min problems

Concavity/Inflection Points

Optimization

Velocity/Acceleration

Anti-derivatives definite and indefinite
Power rule, trig and u-substitution

Fundamental Theorem of Calculus (part 1 and 2)

Areas between curves

Volumes (from graphs or equations) Shell Method
Disk Method
Washer Method

Work

Average Value of a Function