MTH 1001 – Calculus 1

Study Topics

Textbook: Calculus - Early Transcendentals, 8th ed., by James Stewart

2.2: Limits & Graphing
2.3: Limits & Equations
2.5: Continuity
2.6: Limits at Infinity
2.7: Rates of Change
2.8: Definition of Derivative
3.1: Power Rule & Exponent Rule
3.2: Product & Quotient Rules
3.3: Trig Derivatives

Test 1

3.4: Chain Rule
3.5: Implicit Differentiation
3.5: Inverse Trigs
3.6: Log Derivatives
3.7: Linear Motion
3.9: Related Rates
3.11: Hyperbolic Trigs
4.4: L'Hôpital's Rule: Part 1
4.4: L'Hôpital's Rule: Part 2

Test 2

4.1: Abs Max/Min
4.3: Using Calculus to Graph
4.5: Summary of Curve Sketching
4.7: Optimization
4.6: Graphing with Calculator
4.8: Newton's Method
4.9: Antiderivatives
5.1: Area Problem
5.2: Areas by Sigmas
5.3: Fundamental Theorem of Calculus
5.4: Indefinite Integral
5.5: Integration by Substitution

Test 3

FINAL EXAM