

MTH 1002 – Calculus 2

Study Topics

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

- 6.1: Area Between Two Curves
- 6.2: Volumes by Disks
- 6.3: Volumes by Shells
- 7.1: Integration by Parts
- 7.2: Trigonometric Integrals
- 7.3: Trigonometric Substitution
- 7.4: Partial Fraction Decomposition
- 7.5: Integration Strategy
- 7.6: Integration with Computers
- 7.7: Approximate Integration
- 7.8: Improper Integral

Test 1

- 8.1: Arc Length
- 8.2: Surface Area
- 9.1: Differential Equation Models
- 9.3: Separable Differential Equation
- 9.4: Models for Population Growth
- 9.5: Integrating Factor
- 10.1: Parametric Equations
- 10.2: Parametrics with Calc
- 10.4: Area in Polar
- 10.3: Polar Coordinates
- 11.1: Sequences

Test 2

- 11.2: Series
- 11.3: Integral Test
- 11.4: Comparison Tests
- 11.5: Alternating Series
- 11.6: Ratio/Root Tests
- 11.7: Choosing a test
- 11.8: Power Series
- 11.9: Functions as Series
- 11.10: Taylor and Maclaurin Series

Test 3

FINAL EXAM