Calculus

SCOPE & SEQUENCE

HOW TO USE MATH-U-SEE

LESSON 1 Terminology and Graphing
LESSON 2 Parabola, Circle, Ellipse
LESSON 3 Hyperbolas and Systems of Equations
LESSON 4 Functions
LESSON 5 Trigonometry
LESSON 6 Exponential and Logarithmic Functions
LESSON 7 Limits
LESSON 8 Limits and Continuity
LESSON 9 Definition of a Derivative
LESSON 10 Derivative Rules

LESSON 11 Chain Rule
LESSON 12 Derivatives of Trig Functions
LESSON 13 Derivative of e^x and $\ln(x)$
LESSON 14 Implicit Differentiation
LESSON 15 Graphing with the 1st Derivative
LESSON 16 Graphing with the 2nd Derivative
LESSON 17 Mean Value Theorem; L'Hopital's Rule
LESSON 18 Physics Applications
LESSON 19 Economics Applications
LESSON 20 Optimization

LESSON 21 Related Rates
LESSON 22 Antiderivatives
LESSON 23 Integration Formulas
LESSON 24 Area Under a Curve
LESSON 25 Definite Integrals
LESSON 26 Area Between Two Curves
LESSON 27 Inverse Trigonometric Functions
LESSON 28 Integration Using an Integral Table
LESSON 29 Differential Equations
LESSON 30 Integral Application: Differential Equations

STUDENT SOLUTIONS
TEST SOLUTIONS

SYMBOLS & TABLES
GLOSSARY OF TERMS
SECONDARY LEVELS MASTER INDEX
CALCULUS INDEX