



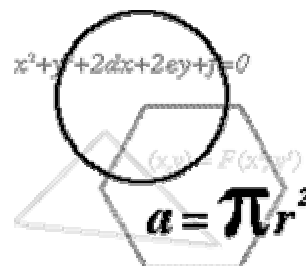
NIDA SPECIFICATIONS



MATHEMATICS

General Description

The Nida Mathematics curriculum is presented in Computer Assisted Instruction (CAI) format, utilizing the educational advantages of graphics, animation, and automated record keeping. The courseware is designed as individual topic-specific lessons that can be assigned as a complete program or selectively administered, when a student requires a mathematics review prior to entering a technology topic area.



Topics

BASIC MATH

Basic Math Pre-test
 Addition and Subtraction
 Multiplying and Dividing
 Fractions
 Fraction Operations
 Decimal Fractions
 Signed Numbers
 Percents
 Exponents and Square Roots
 Metric Notation
 Basic Math Post-Test

ALGEBRA

Algebra Pre-test
 Fundamentals of Algebra
 Linear Equations
 Solving Linear Equations
 Exponents and Monomials
 Polynomials
 Polynomial Factoring
 Roots & Radicals
 Systems of Linear Equations
 Algebra Post-Test

TRIGONOMETRY

Trigonometry Pre-Test
 Fundamentals of Trigonometry
 Trigonometric Functions
 Graphing Trigonometric Functions
 Trigonometric Identities
 Angle Formulas
 Inverse Trigonometric Functions
 Applications of Trigonometry
 Ellipses and Hyperbolas
 Graphing Polar Equations
 Parabolas and Circles

CALCULUS

Basic Math Pre-test
 Addition and Subtraction
 Multiplying and Dividing
 Limits
 Fractions
 Fraction Operations
 Decimal Fractions
 Signed Numbers
 Percents
 Exponents and Square Roots
 Metric Notation

COMPUTER MATH

Computer Math Pre-Test
 Fundamentals of Computer Math
 Number Systems (Base 10 to Base 2)
 Number Systems (Base 8 to Base 16)
 Logic Expressions
 Boolean Algebra Rules
 Gate Networks
 Karnaugh Maps
 Computer Math Post-Test Graphs

MEASUREMENTS

Measurements Pre-Test
 Fundamentals of Measurements
 Metric Conversions
 Angular and Circular Measurements
 Area Measurements
 Volume Measurements
 Velocity and Acceleration Measurements
 Force Measurements
 Work and Power Measurements
 Measurements Post-Test

Math-0503

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