## MTH 1000 - Precalculus

## Study Topics

Textbook: Precalculus, 11th ed., by Sullivan
1.1: The Distance and Midpoint
1.2: Graphs of Equations in Two Variables
1.3: Lines
1.4: Circles
2.1: Functions
2.2: The Graph of a Function
2.3: Properties of Functions
2.4: Library of Functions
2.5: Graphing Techniques
3.3: Quadratic Functions
4.1: Polynomial Functions and Models

Test 1
A.3/4 Polynomial Division
4.2: Properties of Rational Functions
4.3: The Graph of a Rational Function
4.4: Polynomial and Rational Inequalities
11.5 Partial Fractions
5.1: Composite Functions
5.2: One-to-one Functions, Inverse Functions
5.3: Exponential Functions
5.4: Logarithmic Functions
5.5: Properties of Logarithms
5.6: Logarithmic and Exponential Equation Test 2
6.1: Angles and Their Measure
6.2: Trigonometric Functions
6.3: Properties of Trigonometric Functions
6.4: Graphs of the Sine and Cosine Functions
6.5: Graphs of the Tan, Cot, Sec and Csc
6.6: Phase Shift; Sinusoidal Curve Fitting
7.1: Inverse Sin, Cos and Tan Functions
7.2: Inverse Trigonometric Functions (continued)
7.3: Trigonometric Equations

Test 3
7.4: Trigonometric Identities
7.5: Sum and Difference Formulas
7.6: Double-angle and Half-angle Formulas

FINAL EXAM

