

# PreCalculus Scope and Sequence

How to Use

Lesson 1	Introduction to Trigonometry
Lesson 2	Inverse Trigonometric Ratios
Lesson 3	Interpreting the Trigonometry Tables
Lesson 4	Using the Trig. Table to Solve for the Unknown
Lesson 5	Using a Calculator and Arc Functions
Lesson 6	Angles of Elevation and Depression
Lesson 7	Angles $< 0^\circ$ , $> 360^\circ$ , and Reference Angles
Lesson 8	Cofunctions and Negative Angle Relationships
Lesson 9	Proving Trigonometric Identities
Lesson 10	Verifying Trig. Expressions and Identities
Lesson 11	Sum and Difference Identities for the Cosine, Sine and Tangent
Lesson 12	The Double-Angle and Half-Angle Identities
Lesson 13	Law of Sines
Lesson 14	Law of Cosines
Lesson 15	Radian Measure
Lesson 16	Polar Coordinates and Rectangular Coordinates
Lesson 17	Polar Equations and Polar Graphs
Lesson 18	Vectors
Lesson 19	Functions, Relations, Domain, and Range
Lesson 20	Composite Functions
Lesson 21	Logarithms
Lesson 22	Natural Logarithm and Exponential Function
Lesson 23	Graphing the Sine and Cosine Functions
Lesson 24	Graphing the Secant and Cosecant Functions
Lesson 25	Graphing the Tangent and Cotangent Functions
Lesson 26	Arithmetic Sequences and Series
Lesson 27	Geometric Sequences and Series
Lesson 28	Solving Equations with Radicals and Absolute Value
Lesson 29	Solving Inequalities with Absolute Value and Radicals
Lesson 30	Limits
Appendix A	Pythagorean Theorem
Appendix B	Special Right Triangles (30-60-90 and 45-45-90)
Table of Formulas	
Index	