

# Math 12

## Functions; Trigonometry

1201	1202	1203	1204	1205
<p><b>Relations and Functions</b></p> <p><b>Ordered-Pair Numbers</b> Relations Functions Rules of Correspondence</p> <p><b>The Algebra Functions</b> Notation Arithmetic Composition Inverse</p>	<p><b>Functions</b></p> <p><b>Linear Functions</b> Solutions and Graphs Equations Linear Inequalities</p> <p><b>Second-Degree Functions</b> Solutions Relationships Between Zeros and Coefficients Quadratic Inequalities</p> <p><b>Polynomial Functions</b> Remainder Theorem Factor Theorem Synthetic Division Nth Degree Equation</p> <p><b>Special Functions</b> Greatest Integer Function Exponential Function Logarithmic Function Function Combinations</p>	<p><b>The Trigonometric Functions</b></p> <p><b>Definition of the Trigonometric Functions</b></p> <p><b>Evaluation of Functions</b></p> <p><b>Angle Location</b></p> <p><b>Trigonometric Tables</b></p> <p><b>Use of Tables and Interpolation</b></p> <p><b>Reduction Formulas</b></p> <p><b>Quadrantal Angles</b></p> <p><b>Special Angles</b></p> <p><b>Radian Measure</b></p>	<p><b>The Circular Functions and Their Graphs</b></p> <p><b>The Circular Functions</b></p> <p><b>Circular Functions of Special Angles</b></p> <p><b>Graphs of Sin and Cos</b></p> <p><b>Other Graphs</b></p> <p><b>Applications</b></p> <p><b>Amplitude of Circular Functions</b></p> <p><b>Period of Circular Functions</b></p> <p><b>Phase Shift of Circular Functions</b></p>	<p><b>Identities and Functions of Multiple Angles</b></p> <p><b>Reciprocal Relations</b></p> <p><b>Pythagorean Relations</b></p> <p><b>Quotient Relations</b></p> <p><b>Trigonometric Identities</b></p> <p><b>Cosine of the Sum of Two Angles</b></p> <p><b>Additional Sum and Difference Formulas</b></p> <p><b>Double- and Half-Angle Formulas</b></p> <p><b>Identities</b></p> <p><b>Trigonometric Equations</b></p>
1206	1207	1208	1209	1210
<p><b>Application of Trigonometric Functions</b></p> <p><b>Trigonometric Functions of any Angle</b></p> <p><b>Applied Problems</b></p> <p><b>Law of Cosines</b></p> <p><b>Law of Sines</b></p> <p><b>More Applications</b></p> <p><b>Additional Application Problems</b></p>	<p><b>Trigonometric Functions and Polar Coordinates</b></p> <p><b>The Inverse Sin Function</b></p> <p><b>The Inverse Cos Function</b></p> <p><b>The Inverse Tan Function</b></p> <p><b>The Other Inverse Functions</b></p> <p><b>Graphs of Inverse Functions</b></p> <p><b>Graphing Polar Coordinates</b></p> <p><b>Converting Coordinates</b></p> <p><b>Converting Cartesian Equations to Polar Equations</b></p> <p><b>Converting Polar Equations to Cartesian Equations</b></p> <p><b>Graphing Polar Equations</b></p>	<p><b>Quadratic Equations</b></p> <p><b>The Conic Sections: Circle and Ellipse</b> The Circle The Ellipse</p> <p><b>Conic Sections: Parabola and Hyperbola</b> The Parabola The Hyperbola</p> <p><b>Transformations</b> Translation Rotation</p>	<p><b>Probability</b></p> <p><b>Random Experiments and Probability</b> Definitions, Samples, Spaces, and Probability</p> <p>Addition of Probabilities Multiplication of Probabilities</p> <p><b>Permutations and Combinations</b> Definitions Permutations of N Things That Are Different Permutations of N Things Not All Different Circular Permutations Combinations</p> <p><b>Applications (Optional)</b> Binomial Distribution Random Variables and Probability Distribution Miscellaneous Problems</p>	<p><b>Calculus and Review</b></p> <p>Mathematical Induction Summation Proofs by Mathematical Induction</p> <p><b>Functions and Limits</b> Function Notation Difference Quotient Limits</p> <p><b>Slopes of Functions</b> Slope of a Line Slope of a Curve</p> <p><b>Mathematics Light Units 1201 Through 1210 Review</b></p>