



**KENOSHA UNIFIED SCHOOL DISTRICT NO. 1  
CURRICULUM & INSTRUCTIONAL SERVICES  
MATHEMATICS**

<b>Trigonometry (342010)</b>
<b>STANDARD A: MATHEMATICAL PROCESSES</b>
<b>Representation, Reasoning, Problem Solving</b>
<b>Communication, Connections</b>
<i>I can use reasoning and logic to formulate, analyze, and solve problems, and to test the reasonableness of my results.</i>
<i>A-1.12T</i>
<i>I can clearly communicate mathematical concepts either orally or in written form.</i>
<i>A-2.12T</i>
<i>I can use a computer or a calculator as a problem solving tool.</i>
<i>A-3.12T</i>
<i>I can read and interpret mathematical text and other mathematical representations, e.g., numbers, symbols, diagrams, models.</i>
<i>A-4.12T</i>
<b>STANDARD B: NUMBER OPERATIONS AND RELATIONSHIPS</b>
<b>Number Concepts</b>
<b>Number Computation</b>
<i>I can determine the reasonableness of answers.</i>
<i>B-1.12T</i>
<i>I can use mental math.</i>
<i>B-2.12T</i>
<b>STANDARD C: GEOMETRY AND SPATIAL SENSE</b>
<b>Two- and Three-Dimensional Figures</b>
<b>Spatial Relationships and Transformations</b>
<b>Coordinate Systems</b>
<i>I can use trigonometric functions to model and solve real life problems.</i>
<i>C-1.12T</i>
<i>I can identify a unit circle and describe its relationship to real numbers.</i>
<i>C-2.12T</i>
<i>I can sketch graphs of trigonometric functions.</i>
<i>C-3.12T</i>
<i>I can use fundamental trigonometric identities to evaluate trigonometric functions and simplify trigonometric expressions.</i>
<i>C-4.12T</i>
<i>I can verify trigonometric identities.</i>
<i>C-5.12T</i>
<i>I can use Law of Sines or Law of Cosines to solve triangles.</i>
<i>C-6.12T</i>
<b>STANDARD D: MEASUREMENT</b>
<b>Measurable Attributes/Units</b>
<b>Direct Measurement</b>
<b>Indirect Measurement</b>
<i>I can describe an angle and convert between degree and radian measure.</i>
<i>D-1.12T</i>
<i>I can find the measure of a coterminal angle and a reference angle.</i>
<i>D-2.12T</i>
<i>I can evaluate trigonometric functions of any angle.</i>
<i>D-3.12T</i>

*I can evaluate inverse trigonometric functions.*

*D-4.12T*

**STANDARD F: ALGEBRAIC RELATIONSHIPS**

**Patterns, Relations, and Functions**

**Expressions, Equations, Inequalities**

**Properties**

*I can use sum and difference formulas, double-angle formulas, and half-angle formulas to evaluate trigonometric identities.*

*F-1.12T*

*I can use standard algebraic techniques and inverse trigonometric functions to solve trigonometric equations.*

*F-1.12T*