



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

Math Analysis (351010)
STANDARD A: MATHEMATICAL PROCESSES
Representation, Reasoning, Problem Solving
Communication, Connections
<i>I can use reasoning and logic to formulate, analyze, and solve problems, and to test the reasonableness of my results.</i>
<i>A-1.12MA</i>
<i>I can clearly communicate mathematical concepts either orally or in written form.</i>
<i>A-2.12MA</i>
<i>I can use a computer or a calculator as a problem solving tool.</i>
<i>A-3.12MA</i>
<i>I can read and interpret mathematical text and other mathematical representations ,e.g. numbers, symbols, diagrams, models.</i>
<i>A-4.12MA</i>
STANDARD B: NUMBER OPERATIONS AND RELATIONSHIPS
Number Concepts
Number Computation
<i>I can determine the reasonableness of answers.</i>
<i>B-1.12MA</i>
<i>I can use mental math.</i>
<i>B-2.12MA</i>
<i>I can perform operations on real numbers and complex numbers, e.g. functions, integer and rational exponents, and logarithms.</i>
<i>B-3.12MA</i>
STANDARD C: GEOMETRY AND SPATIAL SENSE
Two- and Three-Dimensional Figures
Spatial Relationships and Transformations
Coordinate Systems
<i>I can use trigonometric functions to model and solve real life problems.</i>
<i>C-1.12MA</i>
<i>I can identify a unit circle and describe its relationship to real numbers.</i>
<i>C-2.12MA</i>
<i>I can sketch graphs of trigonometric functions.</i>
<i>C-3.12MA</i>
<i>I can use fundamental trigonometric identities to evaluate trigonometric functions and simplify trigonometric expressions.</i>
<i>C-4.12MA</i>
<i>I can verify trigonometric identities.</i>
<i>C-5.12MA</i>
STANDARD D: MEASUREMENT
Measurable Attributes/Units
Direct Measurement
Indirect Measurement
<i>I can describe an angle and convert between degree and radian measure.</i>
<i>D-1.12MA</i>
<i>I can evaluate trigonometric functions of any angle.</i>
<i>D-2.12MA</i>
<i>I can evaluate inverse trigonometric functions.</i>

<i>D-3.12MA</i>
STANDARD F: ALGEBRAIC RELATIONSHIPS
Patterns, Relations, and Functions
Expressions, Equations, Inequalities
Properties
<i>I can find the domain and range of a function.</i>
<i>F-1.12MA</i>
<i>I can perform operations on functions and compositions of functions.</i>
<i>F-2.12MA</i>
<i>I can find the zeros of a function.</i>
<i>F-3.12MA</i>
<i>I can determine symmetry, continuity, extrema, and end behavior of graphs.</i>
<i>F-4.12MA</i>
<i>I can identify and graph shifts, reflections, and transformations of graphs.</i>
<i>F-5.12MA</i>
<i>I can find inverses functions graphically and algebraically.</i>
<i>F-6.12MA</i>
<i>I can determine the domains, find the asymptotes, and sketch the graphs of rational functions.</i>
<i>F-7.12MA</i>
<i>I can determine roots of polynomial equations, e.g. Rational Root Theorem.</i>
<i>F-8.12MA</i>
<i>I can use sum and difference formulas to evaluate trigonometric identities.</i>
<i>F-9.12MA</i>
<i>I can use standard algebraic techniques and inverse trigonometric functions to solve trigonometric equations.</i>
<i>F-10.12MA</i>
<i>I can recognize, evaluate, and graph exponential and logarithmic functions.</i>
<i>F-11.12MA</i>
<i>I can rewrite logarithmic functions with different bases.</i>
<i>F-12.12MA</i>