12001 Algebra and Trigonometry (5)

Knowledge

The students should demonstrate a rigorous understanding of elementary functions, including polynomial, exponential, logarithmic, and periodic types. Solve problems in algebra and trigonometry and be able to apply mathematical techniques associated with multi-step problems.

Comprehension

Should be able to understand the notions of trigonometry related to four trigonometric functions, and their inverses, as well as the notions from algebra for calculus.

Application

The main and most important application is to solve many different problems related to the subject.

Analysis

Should be able to solve trigonometric inequalities, simplify trigonometric expressions, and analyze the data of "mixed" (trigonometric and algebraic) origin.

Synthesis

Should be ready for taking Calculus courses.

Evaluation

Should complete homeworks, pass mid-term tests and a final exam.

Class Activities

To solve problems in class and discuss theorems.

Out of class Activities

To submit homework assignments.