12012 Calculus with Precalculus II (3)

Knowledge
Development of integral calculus and continued study of differential calculus. Includes curve sketching optimization fundamental theorem of calculus areas between curves, exponential and logarithmic functions.

Comprehension
Should understand the notions of areas and distances, Riemann sums, the definite integral, antiderivatives, Fundamental Theorem of Calculus, indefinite integrals, integration by substitution.

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

Analysis
Should be able to analyze the net change, areas between curves, average value of a function.

Synthesis
Should continue developing abstract thinking.

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.