

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.