

AP[®] Calculus AB

Syllabus

Course Overview

We cover everything in the Calculus AB topic outline as it appears in the AP[®] Calculus Course Description. The primary textbook is *Calculus: Graphical, Numerical, Algebraic*, 3rd ed., AP[®] Edition, by Finney, Demana, Waits and Kennedy.

Course Planner

Below is the sequence of our AP Calculus AB course.

First Semester AP Calculus AB

Section Number	Topics	Timeline
1.1	Lines	1 day
1.2	Function and Graphs	2 days
1.3	Exponential Functions	1 day
1.5	Functions and Logarithms	1 day
1.4	Parametric Equations	1 day
1.6	Trigonometric Functions	2 days
2.1	Rates of Change and Limits	2 days
2.2	Limits Involving Infinity	2 days
2.3	Continuity	2 days
2.4	Rates of Change and Tangent Lines	2 days
3.1	Derivatives of a Function	3 days
3.2	Differentiability	3 days
3.3	Rules of Differentiation	3 days
3.4	Velocity and Other Rates of Change	4 days
3.5	Derivatives of Trigonometric Functions	3 days
3.6	Chain Rule	2 days
3.7	Implicit Differentiation	2 days
3.8	Derivatives of Inverse Trigonometric Functions	3 days
3.9	Derivatives of Exponential and Logarithmic Functions	3 days
4.1	Extrema Values of Functions	3 days
4.3	Connecting f' and f'' with Graphs of f	3 days
4.2	Mean Value Theorem	2 days
4.4	Modeling and Optimization	3 days
4.5	Linearization and Newton's Methods	3 days
4.6	Related Rates	3 days