

A Course In Calculus And Real Ysis

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A typical course in calculus covers the following topics: 1. How to find the instantaneous change (called the "derivative") of various functions. (The process of doing so is called "differentiation".) 2. How to use derivatives to solve various kinds of problems. 3. How to go back from the derivative of a function to the function itself.

1.2 What Is Calculus and Why do we Study it?

Average vs. instantaneous rate of change: Derivatives: definition and basic rules Secant lines: Derivatives: definition and basic rules Derivative definition: Derivatives: definition and basic rules Estimating derivatives: Derivatives: definition and basic rules Differentiability: Derivatives: definition and basic rules Power rule: Derivatives: definition and basic rules

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