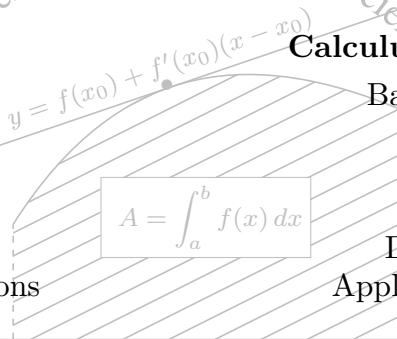




## Calculus I

- Introduction
- Functions
- Limits
- Continuity
- Differentiation
  - Applications
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## Calculus I Using Maple

- Basics of Maple
- Functions
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# Introduction

Mathematics has always been the promise of tomorrow. In our earlier education, we were asked to learn *trigonometry*, and someday we would see what it's good for; to study *analytic geometry* and we would eventually see application; to conform ourselves to the discipline of *algebra* and we would someday be able to use it in a worthwhile way. Is *Calculus* the promise finally fulfilled?

I'll let you determine the answer to that question for yourself, but as for me, the answer was "yes." It was my view, *Calculus* was the first truly *interesting* mathematics course. It is a set of topics for which you can easily see or imagine many important and useful applications. *Calculus* is the entry way into the higher realms of the Physical Sciences such as physics and engineering, and to a lesser extent the Natural Sciences and Social Sciences.

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