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mathematics of change. Another is that
calculus is a field of mathematics with

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important applications in science, engineering, medicine, and business. The principle example in this lesson is the classic tangent line problem: the calculation of the slope of the tangent line to a parabola at a specific point.

Understanding Calculus: Problems,

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either exercises or problems. The distinction here is that solutions to exercises are written out in

A ProblemText in Advanced Calculus
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applications of this basic material were stressed from year to year, and the book therefore contains more material than was covered in any one year. It can accordingly be used (with omissions) as a text for a year's course in advanced calculus, or as a text for a three-semester introduction to analysis. The prerequisites

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are a good grounding in the calculus of one variable from a mathematically rigorous point of view, together with some acquaintance with linear algebra. The reader should be familiar with limit and continuity type arguments and have a certain amount of mathematical sophistication. As possible introductory

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texts, we mention Differential and Integral Calculus by R Courant, Calculus by T Apostol, Calculus by M Spivak, and Pure Mathematics by G Hardy. The reader should also have some experience with partial derivatives. In overall plan the book divides roughly into a first half which develops the calculus (principally the

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