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INTRODUCTION TO REAL ANALYSIS - Trinity University

Abstract. These are some notes on introductory real analysis. They cover the properties of the real numbers, sequences and series of real numbers, limits of functions, continuity, differentiability, sequences and series of functions, and Riemann integration. They don't include multi-variable calculus or contain any problem sets.

An Introduction to Real Analysis John K. Hunter

INTRODUCTION TO REAL ANALYSIS Fourth Edition Robert G. Bartle Donald R. Sherbert University of Illinois, Urbana-Champaign John Wiley & Sons, Inc.

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INTRODUCTION TO REAL ANALYSIS - Williams College

Introduction to Real Analysis: An Educational Approach is an ideal book for upper- undergraduate and graduate-level real analysis courses in the areas of mathematics and education. It is also a valuable reference for educators in the field of applied mathematics.

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The Real Line A convenient and familiar geometric interpretation of the real number system is the real line. In this interpretation, the absolute value $|a|$ of an element a in \mathbb{R} is regarded as the distance from a to the origin 0 .

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I often teach the MATH 501-502: Introduction to Real Analysis course at the University of Louisville. The course is intended for a mix of mostly upper-level mathematics majors with a smattering of other students from mathematics, physics and engineering. These are notes I've compiled over the years. They cover the basic ideas of analysis on the real line.

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