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Introduction to real analysis / William F. Trench p. cm. ISBN 0-13-045786-8 1. Mathematical Analysis. I. Title. QA300.T6672003 515-dc21 2002032369 Free Hyperlinked Edition 2.04 December 2013 This book was published previously by Pearson Education. This free edition is made available in the hope that it will be useful as a textbook or reference.

### **INTRODUCTION TO REAL ANALYSIS - Trinity University**

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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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.

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Section 1.2 is about induction. Although this may seem out of place in a real analysis course, I have found that the typical beginning real analysis student simply cannot do an induction proof without reviewing the method.

Section 1.3 is devoted to elementary set theory and the topology of the real line, ending with the Heine-Borel and Bolzano-Weierstrass theorems.

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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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About This Document 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

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