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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.

### **An Introduction to Real Analysis John K. Hunter**

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THE SET OF REAL NUMBERS 25 1.2 The set of real numbers Note: 2 lectures, the extended real numbers are optional 1.2.1 The set of real numbers We finally get to the real number system. Instead of constructing the real number set from the rational numbers, we simply state their existence as a theorem without proof.

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Chapter 1 Metric Spaces These notes accompany the Fall 2011 Introduction to Real Analysis course 1.1 Definition and Examples Definition 1.1. Given a set  $X$  a metric on  $X$  is a function  $d: X \times X \rightarrow \mathbb{R}$

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