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INTRODUCTION TO REAL ANALYSIS - Trinity University

An Introduction to Real Analysis John K. Hunter 1 Department of Mathematics, University of California at Davis 1 The author was supported in part by the NSF. Thanks to Janko Gravner for a number of corrections and comments.

An Introduction to Real Analysis John K. Hunter

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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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Robert Gardner Bartle was an American mathematician specializing in real analysis. He is known for writing various popular textbooks. Donald R. Sherbert is the author of Introduction to Real Analysis, 4th Edition, published by Wiley.

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The careful study of real analysis unavoidably entails the reading and writing of proofs, and like any skill, it is necessary to practice. This chapter is a starting point. Section 1.1

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