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Infinite products; 7.6. The binomial theorem; CHAPTER 8. THE RIEMANN INTEGRAL; 8.1. Introduction; 8.2. The Riemann integral; 8.3. Integrability of monotonic functions; 8.4. Continuous functions and the Riemann integral  
8.5. Further applications of the fundamental theorem 8.6. Alternative approach to the logarithmic function; 8.7. Infinite and improper integrals; 8.8 Volumes of revolution; ANSWERS AND HINTS; INDEX

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Sommario/riassunto

An Introduction to Real Analysis presents the concepts of real analysis and highlights the problems which necessitate the introduction of these concepts. Topics range from sets, relations, and functions to numbers, sequences, series, derivatives, and the Riemann integral. This volume begins with an introduction to some of the problems which are met in the use of numbers for measuring, and which provide motivation for the creation of real analysis. Attention then turns to real numbers that are built up from natural numbers, with emphasis on integers, rationals, and irrationals. The chapters tha

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