

4.2.3. LEMMA. A sequence $\mathbf{x}_k = (x_{k,1}, \dots, x_{k,n})$ in \mathbb{R}^n converges to a point $\mathbf{a} = (a_1, \dots, a_n)$ if and only if each coefficient converges:

$$\lim_{k \rightarrow \infty} \mathbf{x}_k = \mathbf{a} \quad \text{if and only if} \quad \lim_{k \rightarrow \infty} x_{k,i} = a_i \quad \text{for} \quad 1 \leq i \leq n.$$

PROOF. First suppose that $\lim_{k \rightarrow \infty} \mathbf{x}_k = \mathbf{a}$. Then given $\varepsilon > 0$, we obtain an integer N such that $\|\mathbf{x}_k - \mathbf{a}\| < \varepsilon$ for all $k \geq N$. Then for each $1 \leq i \leq n$ and all $k \geq N$,

$$|x_{k,i} - a_i| \leq \left(\sum_{j=1}^n |x_{k,j} - a_j|^2 \right)^{1/2} = \|\mathbf{x}_k - \mathbf{a}\| < \varepsilon.$$

Therefore, $\lim_{k \rightarrow \infty} x_{k,i} = a_i$ for all $1 \leq i \leq n$.

Conversely, suppose that each coordinate sequence $x_{k,i}$ converges to a real number a_i for $1 \leq i \leq n$. Then given $\varepsilon > 0$, use ε/n in the definition of limit and choose N_i so large that

$$|x_{k,i} - a_i| < \frac{\varepsilon}{n} \quad \text{for all} \quad k \geq N_i.$$

Then using $N = \max\{N_i : 1 \leq i \leq n\}$, all n of these inequalities are valid for $k \geq N$. Hence

$$\|\mathbf{x}_k - \mathbf{a}\| = \left(\sum_{i=1}^n |x_{k,i} - a_i|^2 \right)^{1/2} < \left(\sum_{i=1}^n \left(\frac{\varepsilon}{n} \right)^2 \right)^{1/2} < \varepsilon.$$

Therefore, $\lim_{k \rightarrow \infty} \mathbf{x}_k = \mathbf{a}$. ■

Real Analysis Proofs Solutions

Steven R. Lay



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Real Analysis Russell A. Gordon, 2002 This text presents ideas of elementary real analysis with chapters on real numbers sequences limits and continuity differentiation integration infinite series sequences and series of functions and point set topology Appendices review essential ideas of mathematical logic sets and functions and mathematical induction Students are required to confront formal proofs Some background in calculus or linear or abstract algebra is assumed This second edition adds material on functions of bounded variation convex functions numerical methods of integration and metric spaces There are 1 600 exercises in this edition an addition of some 120 pages c Book News Inc

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Problems and Solutions for Undergraduate Real Analysis I Kit-Wing Yu, 2018-09-22 The aim of Problems and Solutions for Undergraduate Real Analysis I as the name reveals is to assist undergraduate students or first year students who study mathematics in learning their first rigorous real analysis course The wide variety of problems which are of varying difficulty include the following topics Elementary Set Algebra the Real Number System Countable and Uncountable Sets Elementary Topology on Metric Spaces Sequences in Metric Spaces Series of Numbers Limits and Continuity of Functions Differentiation and the Riemann Stieltjes Integral Furthermore the main features of this book are listed as follows 1 The book contains 230 problems which cover the topics mentioned above with detailed and complete solutions As a matter of fact my solutions show every detail every step and every theorem that I applied 2 Each chapter starts with a brief and concise note of introducing the notations terminologies basic mathematical concepts or important famous frequently used theorems without proofs relevant to the topic 3 Three levels of difficulty have been assigned to problems so that you can sharpen your mathematics step by step 4 Different colors are used frequently in order to highlight or explain problems examples remarks main points formulas involved or show the steps of manipulation in some complicated proofs ebook only 5 An appendix about mathematical logic is included It tells students what concepts of logic e.g. techniques of proofs are necessary in advanced mathematics

A Concrete Introduction to Real Analysis Robert Carlson, 2017-11-28 A Concrete Introduction to Analysis Second Edition offers a major reorganization of the previous edition with the goal of making it a much more comprehensive and accessible for students The standard austere approach to teaching modern mathematics with its emphasis on formal proofs can be challenging and discouraging for many students To remedy this situation the new edition is more rewarding and inviting Students benefit from the text by gaining a solid foundational knowledge of analysis which they can use in their fields of study and chosen professions The new edition capitalizes on the trend to combine topics from a traditional transition to proofs course with a first course on analysis Like the first edition the text is appropriate for a one or two semester introductory analysis or real analysis course The choice of topics and level of coverage is suitable for mathematics majors future teachers and students studying engineering or other fields requiring a solid working knowledge of undergraduate mathematics Key highlights Offers integration of transition topics to assist with the necessary background for analysis Can be used for either a one or a two semester course Explores

how ideas of analysis appear in a broader context Provides as major reorganization of the first edition Includes solutions at the end of the book

How to Read and Do Proofs Daniel Solow,2005 The book covers all the basic proof techniques in a very readable concise way without overwhelming the student The organization is great I like the short chapters highlighting only one concept at a time Josephine Hamer Western Connecticut State University

Elements of Real Analysis Herbert S. Gaskill,P. P. Narayanaswami,1998 Comprehensive in coverage this book explores the principles of logic the axioms for the real numbers limits of sequences limits of functions differentiation and integration infinite series convergence and uniform convergence for sequences of real valued functions Concepts are presented slowly and include the details of calculations as well as substantial explanations as to how and why one proceeds in the given manner Uses the words WHY and HOW throughout inviting readers to become active participants and to supply a missing argument or a simple calculation Contains more than 1000 individual exercises Stresses and reviews elementary algebra and symbol manipulation as essential tools for success at the kind of computations required in dealing with limiting processes

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Introduction to Real Analysis Manfred Stoll,2001 This textbook is designed for a one year course in real analysis at the junior or senior level An understanding of real analysis is necessary for the study of advanced topics in

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