

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

Edouard Goursat



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subject emphasizing the connections between real analysis and other branches of mathematics Basic Real Analysis requires of the reader only familiarity with some linear algebra and real variable theory the very beginning of group theory and an acquaintance with proofs It is suitable as a text in an advanced undergraduate course in real variable theory and in most basic graduate courses in Lebesgue integration and related topics Because it focuses on what every young mathematician needs to know about real analysis the book is ideal both as a course text and for self study especially for graduate studentspreparing for qualifying examinations Its scope and approach will appeal to instructors and professors in nearly all areas of pure mathematics as well as applied mathematicians working in analytic areas such as statistics mathematical physics and differential equations Indeed the clarity and breadth of Basic Real Analysis make it a welcome addition to the personal library of every mathematician

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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

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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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A Complete Solution Guide to Real and Complex Analysis I Kit-Wing Yu, 2019-05 This is a complete solution guide to all exercises from Chapters 1 to 9 in Rudin's Real and Complex Analysis The

features of this book are as follows It covers all the 176 exercises from Chapters 1 to 9 with detailed and complete solutions As a matter of fact my solutions show every detail every step and every theorem that I applied There are 11 illustrations for explaining the mathematical concepts or ideas used behind the questions or theorems Sections in each chapter are added so as to increase the readability of the exercises Different colors are used frequently in order to highlight or explain problems lemmas remarks main points formulas involved or show the steps of manipulation in some complicated proofs ebook only Necessary lemmas with proofs are provided because some questions require additional mathematical concepts which are not covered by Rudin Many useful or relevant references are provided to some questions for your future research

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A Course in Mathematical Analysis: pt.2. Differential equations. [c1917] Edouard Goursat, 1916

Topological Methods in Nonlinear Analysis, 1995

Proceedings of the London Mathematical Society London Mathematical Society, 1925 Papers presented to J E Littlewood on his 80th birthday issued as 3d ser v 14 A 1965

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