

**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  $\varepsilon/n$  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,  $\lim_{k \rightarrow \infty} \mathbf{x}_k = \mathbf{a}$ . ■

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*Topological Methods in Nonlinear Analysis* ,1995 [A Course in Mathematical Analysis: pt.2. Differential equations. \[c1917](#) Edouard Goursat,1916

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## **Table of Contents Real Analysis Proofs Solutions**

1. Understanding the eBook Real Analysis Proofs Solutions
  - The Rise of Digital Reading Real Analysis Proofs Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Real Analysis Proofs Solutions
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Real Analysis Proofs Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Real Analysis Proofs Solutions
  - Personalized Recommendations

- Real Analysis Proofs Solutions User Reviews and Ratings
- Real Analysis Proofs Solutions and Bestseller Lists
- 5. Accessing Real Analysis Proofs Solutions Free and Paid eBooks
  - Real Analysis Proofs Solutions Public Domain eBooks
  - Real Analysis Proofs Solutions eBook Subscription Services
  - Real Analysis Proofs Solutions Budget-Friendly Options
- 6. Navigating Real Analysis Proofs Solutions eBook Formats
  - ePub, PDF, MOBI, and More
  - Real Analysis Proofs Solutions Compatibility with Devices
  - Real Analysis Proofs Solutions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Real Analysis Proofs Solutions
  - Highlighting and Note-Taking Real Analysis Proofs Solutions
  - Interactive Elements Real Analysis Proofs Solutions
- 8. Staying Engaged with Real Analysis Proofs Solutions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Real Analysis Proofs Solutions
- 9. Balancing eBooks and Physical Books Real Analysis Proofs Solutions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Real Analysis Proofs Solutions
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Real Analysis Proofs Solutions
  - Setting Reading Goals Real Analysis Proofs Solutions
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Real Analysis Proofs Solutions
  - Fact-Checking eBook Content of Real Analysis Proofs Solutions

- Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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