

# Real Analysis - Homework solutions

Chris Monico, May 2, 2013

1.1 (a) Rings (resp.  $\sigma$ -rings) are closed under finite (resp. countable) intersections.

(b) If  $\mathcal{R}$  is a ring (resp.  $\sigma$ -ring) then  $\mathcal{R}$  is an algebra (resp.  $\sigma$ -algebra) iff  $X \in \mathcal{R}$ .

(c) If  $\mathcal{R}$  is a (nonempty)  $\sigma$ -ring then  $\{E \subset X : E \in \mathcal{R} \text{ or } E^c \in \mathcal{R}\}$  is a  $\sigma$ -algebra.

(d) If  $\mathcal{R}$  is a  $\sigma$ -ring, then  $\{E \subset X : E \cap F \in \mathcal{R} \text{ for all } F \in \mathcal{R}\}$  is a  $\sigma$ -algebra.

Solution:

(a) If  $\mathcal{R}$  is a ring and  $E_1, E_2 \in \mathcal{R}$ , then since  $\mathcal{R}$  is closed under differences,  $E_1 - (E_1 - E_2) \in \mathcal{R}$ . But

$$E_1 - (E_1 - E_2) = E_1 - (E_1 \cap E_2^c) = E_1 \cap (E_1^c \cup E_2) = E_1 \cap E_2.$$

It follows inductively that  $\mathcal{R}$  is closed under finite intersections. Suppose now that  $\mathcal{R}$  is a  $\sigma$ -ring and  $\{E_n\} \subset \mathcal{R}$ . Let  $A = \bigcup E_j$  and  $\widetilde{E}_n = A - E_n$ . Then  $\widetilde{E}_n \in \mathcal{R}$  for all  $n \geq 1$  and so  $F = E_1 - \bigcup_{j=2}^{\infty} \widetilde{E}_j$  is also in  $\mathcal{R}$ . But

$$F = E_1 \cap \left( \bigcap_{j=2}^{\infty} \widetilde{E}_j^c \right) = E_1 \cap \left( \bigcap_{j=2}^{\infty} (A^c \cup E_j) \right) = \bigcap_{j=2}^{\infty} ((E_1 \cap A^c) \cup (E_1 \cap E_j)) = \bigcap_{j=2}^{\infty} (E_1 \cap E_j) = \bigcap_{j=1}^{\infty} E_j.$$

(b) If  $\mathcal{R}$  is a ring (resp.  $\sigma$ -ring) and  $X \in \mathcal{R}$ , then for all  $E \in \mathcal{R}$  we have  $E^c = X - E \in \mathcal{R}$  so  $\mathcal{R}$  is closed under complements and therefore an algebra (resp.  $\sigma$ -algebra). On the other hand if  $\mathcal{R}$  is an algebra (resp.  $\sigma$ -algebra), then it's nonempty so there exists  $E \in \mathcal{R}$  and hence  $X = E \cup E^c \in \mathcal{R}$ .

(c) Suppose  $\mathcal{R}$  is a nonempty  $\sigma$ -ring and  $\mathcal{M} = \{E \subset X : E \in \mathcal{R} \text{ or } E^c \in \mathcal{R}\}$ . Clearly  $\mathcal{M}$  is closed under complements. Suppose that  $\{E_n\} \subset \mathcal{M}$ . By part (a),  $\mathcal{R}$  is closed under countable intersections so  $A = \bigcap_{j \geq 1} E_j^c \in \mathcal{R}$ . Since  $\mathcal{R}$  is closed under countable unions,  $B = \bigcup_{j \geq 1} E_j \in \mathcal{R}$ . Now

$$\begin{aligned} \bigcup_{j \geq 1} E_j &= \left( \bigcup_{\substack{j \geq 1 \\ E_j^c \in \mathcal{R}}} E_j \right) \cup \left( \bigcup_{\substack{j \geq 1 \\ E_j \in \mathcal{R}}} E_j \right) \\ &= \left( \left( \bigcap_{\substack{j \geq 1 \\ E_j^c \in \mathcal{R}}} E_j^c \right) \cap \left( \bigcup_{\substack{j \geq 1 \\ E_j \in \mathcal{R}}} E_j \right) \right)^c \\ &= (A - B)^c. \end{aligned}$$

Since  $A, B \in \mathcal{R}$  and  $\mathcal{R}$  is closed under differences,  $A - B \in \mathcal{R}$ , hence  $\bigcup E_j = (A - B)^c \in \mathcal{M}$ . Therefore  $\mathcal{M}$  is also closed under countable unions, hence it's a  $\sigma$ -algebra.

(d) Suppose  $\mathcal{R}$  is a  $\sigma$ -ring and  $\mathcal{A} = \{E \subset X : E \cap F \in \mathcal{R} \text{ for all } F \in \mathcal{R}\}$ . Suppose  $E \in \mathcal{A}$  and let  $F \in \mathcal{R}$ . Then  $E \cap F \in \mathcal{R}$  and since  $\mathcal{R}$  is closed under differences,  $E^c \cap F = F - E = F - (E \cap F) \in \mathcal{R}$ , and therefore  $\mathcal{A}$  is closed under complements. If  $\{E_n\} \subset \mathcal{A}$  and  $F \in \mathcal{R}$  then  $E_n \cap F \in \mathcal{R}$  and so  $(\bigcup E_n) \cap F = \bigcup (E_n \cap F) \in \mathcal{R}$  for all  $n$ , so  $\mathcal{A}$  is closed under countable unions as well and therefore is a  $\sigma$ -algebra.

# Real Analysis Solution

**Michael Hoelscher**



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**A Complete Solution Guide to Real and Complex Analysis II** Kit-Wing Yu, 2021-04-05 This is a complete solution guide to all exercises from Chapters 10 to 20 in Rudin's Real and Complex Analysis The features of this book are as follows It covers all the 221 exercises from Chapters 10 to 20 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 29 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

**Real Analysis** Polaso, 1991 **Basic Real Analysis** Anthony W.

Knapp,2007-10-04 Basic Real Analysis systematically develops those concepts and tools in real analysis that are vital to every mathematician whether pure or applied aspiring or established Along with a companion volume Advanced Real Analysis available separately or together as a Set these works present a comprehensive treatment with a global view of the 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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## **Table of Contents Real Analysis Solution**

1. Understanding the eBook Real Analysis Solution
  - The Rise of Digital Reading Real Analysis Solution
  - Advantages of eBooks Over Traditional Books
2. Identifying Real Analysis Solution
  - 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 Solution
  - User-Friendly Interface
4. Exploring eBook Recommendations from Real Analysis Solution
  - Personalized Recommendations
  - Real Analysis Solution User Reviews and Ratings
  - Real Analysis Solution and Bestseller Lists
5. Accessing Real Analysis Solution Free and Paid eBooks
  - Real Analysis Solution Public Domain eBooks

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