Real Analysis – Homework solutions

Chris Monico, May 2, 2013

1.1 (a) Rings (resp. σ-rings) are closed under finite (resp. countable) intersections.
(b) If $\mathcal{R}$ is a ring (resp. σ-ring) then $\mathcal{R}$ is an algebra (resp. σ-algebra) iff $X \in \mathcal{R}$.
(c) If $\mathcal{R}$ is a (nonempty) σ-ring then $\{E \subset X : E \in \mathcal{R} \text{ or } E^c \in \mathcal{R}\}$ is a σ-algebra.
(d) If $\mathcal{R}$ is a σ-ring, then $\{E \subset X : E \cap F \in \mathcal{R} \text{ for all } F \in \mathcal{R}\}$ is a σ-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 σ-ring and $\{E_n\} \subset \mathcal{R}$. Let $A = \bigcup E_j$ and $\overline{E_n} = A - E_n$. Then $\overline{E_n} \in \mathcal{R}$ for all $n \geq 1$ and so $F = E_1 - \bigcup_{j=2}^{\infty} \overline{E_j}$ is also in $\mathcal{R}$. But

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

(b) If $\mathcal{R}$ is a ring (resp. σ-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. σ-algebra). On the other hand if $\mathcal{R}$ is an algebra (resp. σ-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 σ-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 $A = \bigcap\limits_{\substack{j \geq 1 \\ E_j^c \in \mathcal{R}}} E_j^c \in \mathcal{R}$. Since $\mathcal{R}$ is closed under countable unions, $B = \bigcup\limits_{\substack{j \geq 1 \\ E_j \in \mathcal{R}}} E_j \in \mathcal{R}$. Now

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

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 σ-algebra.

(d) Suppose $\mathcal{R}$ is a σ-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 σ-algebra.

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Puja Mehta

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Real Analysis Gerald B. Folland,2013-06-11 An in depth look at real analysis and its applications now expanded and revised This new edition of the widely used analysis book continues to cover real analysis in greater detail and at a more advanced level than most books on the subject Encompassing several subjects that underlie much of modern analysis the book focuses on measure and integration theory point set topology and the basics of functional analysis It illustrates the use of the general theories and introduces readers to other branches of analysis such as Fourier analysis distribution theory and probability theory This edition is bolstered in content as well as in scope extending its usefulness to students outside of pure analysis as well as those interested in dynamical systems The numerous exercises extensive bibliography and review chapter on sets and metric spaces make Real Analysis Modern Techniques and Their Applications Second Edition invaluable for students in graduate level analysis courses New features include Revised material on the n dimensional Lebesgue integral An improved proof of Tychonoff s theorem Expanded material on Fourier analysis A newly written chapter devoted to distributions and differential equations Updated material on Hausdorff dimension and fractal dimension **Real Analysis** G. B. Folland,1984-09-24 This book covers the subject matter that is central to mathematical analysis measure and integration theory some point set topology and rudiments of functional analysis Also a number of other topics are developed to illustrate the uses of this core material in important areas of mathematics and to introduce readers to more advanced techniques Some of the material presented has never appeared outside of advanced monographs and research papers or been readily available in comparative texts About 460 exercises at varying levels of difficulty give readers practice in working with the ideas presented here **The American Mathematical Monthly** ,1894 Includes articles as well as notes and other features about mathematics and the profession **A Passage to Modern Analysis** William J. Terrell,2019-10-21 A Passage to Modern Analysis is an extremely well written and reader friendly invitation to real analysis An introductory text for students of mathematics and its applications at the advanced undergraduate and beginning graduate level it strikes an especially good balance between depth of coverage and accessible exposition The examples problems and exposition open up a student s intuition but still provide coverage of deep areas of real analysis A yearlong course from this text provides a solid foundation for further study or application of real analysis at the graduate level A Passage to Modern Analysis is grounded solidly in the analysis of R and Rn but at appropriate points it introduces and discusses the more general settings of inner product spaces normed spaces and metric spaces The last five chapters offer a bridge to fundamental topics in advanced areas such as ordinary differential equations Fourier series and partial differential equations Lebesgue measure and the Lebesgue integral and Hilbert space Thus the book introduces interesting and useful developments beyond Euclidean space where the concepts of analysis play important roles and it prepares readers for further study of those developments **Problems And Solutions In Real Analysis (Second Edition)** Masayoshi Hata,2016-12-12 This second edition

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mathematical concepts which are not covered by Rudin Many useful or relevant references are provided to some questions for your future research   **A Guide to Advanced Real Analysis** G. B. Folland,2009-11-30 A concise guide to the core material in a graduate level real analysis course   *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   **Problems in Real Analysis** Charambolos D. Aliprantis,1999   *Introduction to Real Analysis* Robert G. Bartle,Donald R. Sherbert,1992 Recognizing the increased role of real analysis in economics management engineering and computer science as well as in the physical sciences this Second Edition meets the need for an accessible comprehensive textbook regarding the fundamental concepts and techniques in this area of mathematics Provides solid coverage of real analysis fundamentals with an emphasis on topics from numerical analysis and approximation theory because of their increased importance to contemporary students Topics include real numbers sequences limits continuous functions differentiation infinite series and more Topological concepts are now conveniently combined into one chapter An appendix on logic and proofs helps students in analyzing proofs of theorems   **Exercises in Analysis** Leszek Gasińksi,Nikolaos S. Papageorgiou,2014-07-26 Exercises in Analysis will be published in two volumes This first volume covers problems in five core topics of mathematical analysis metric spaces topological spaces measure integration and Martingales measure and topology and functional analysis Each of five topics correspond to a different chapter with inclusion of the basic theory and accompanying main definitions and results followed by suitable comments and remarks for better understanding of the material At least 170 exercises problems are presented for each topic with solutions available at the end of each chapter The entire collection of exercises offers a balanced and useful picture for the application surrounding each topic This nearly encyclopedic coverage of exercises in mathematical analysis is the first of its kind and is accessible to a wide readership Graduate students will find the collection of problems valuable in preparation for their preliminary or qualifying exams as well as for testing their deeper understanding of the material Exercises are denoted by degree of difficulty Instructors teaching courses that include one or all of the above mentioned topics will find the exercises of great help in course preparation Researchers in analysis may find this Work useful as a summary of analytic theories published in one accessible

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