# Real Analysis – Homework solutions

Chris Monico, May 2, 2013

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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 $A = \bigcap_{\substack{j \geq 1 \\ E_j^c \in \mathcal{R}}} E_j^c \in \mathcal{R}$. Since $\mathcal{R}$ is closed under countable unions, $B = \bigcup_{\substack{j \geq 1 \\ E_j \in \mathcal{R}}} E_j \in \mathcal{R}$. 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 $\sigma$-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

**Mark Steyvers**

**Real Analysis Solution:**

   Problems And Solutions In Real Analysis (Second Edition) Masayoshi Hata,2016-12-12 This second edition introduces an additional set of new mathematical problems with their detailed solutions in real analysis It also provides numerous improved solutions to the existing problems from the previous edition and includes very useful tips and skills for the readers to master successfully There are three more chapters that expand further on the topics of Bernoulli numbers differential equations and metric spaces Each chapter has a summary of basic points in which some fundamental definitions and results are prepared This also contains many brief historical comments for some significant mathematical results in real analysis together with many references Problems and Solutions in Real Analysis can be treated as a collection of advanced exercises by undergraduate students during or after their courses of calculus and linear algebra It is also instructive for graduate students who are interested in analytic number theory Readers will also be able to completely grasp a simple and elementary proof of the Prime Number Theorem through several exercises This volume is also suitable for non experts who wish to understand mathematical analysis **Problems in Real Analysis** Charalambos D. Aliprantis,Owen Burkinshaw,1999 This volume aims to teach the basic methods of proof and problem solving by presenting the complete solutions to over 600 problems that appear in the companion Principles of Real Analysis 3rd edition *Problems and Solutions in Real Analysis* Masayoshi Hata,2007 *Problems and Solutions in Real Analysis* Masayoshi Hata,2007 This unique book provides a collection of more than 200 mathematical problems and their detailed solutions which contain very useful tips and skills in real analysis Each chapter has an introduction in which some fundamental definitions and propositions are prepared This also contains many brief historical comments on some significant mathematical results in real analysis together with useful references Problems and Solutions in Real Analysis may be used as advanced exercises by undergraduate students during or after courses in calculus and linear algebra It is also useful for graduate students who are interested in analytic number theory Readers will also be able to completely grasp a simple and elementary proof of the prime number theorem through several exercises The book is also suitable for non experts who wish to understand mathematical analysis Real Analysis for Beginners - Solution Guide Steve Warner,2020-06-23 Real Analysis for Beginners Solution GuideThis book contains complete solutions to the problems in the 16 Problem Sets in Real Analysis for Beginners Note that this book references examples and theorems from Real Analysis for Beginners Therefore it is strongly suggested that you purchase a copy of that book before purchasing this one **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

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