

# 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

**JL Elias**



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*Real Analysis for Beginners - Solution Guide* Steve Warner, 2020-06-23 *Real Analysis for Beginners Solution Guide* This 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.

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**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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2 click settings open settings from edge s options