

# 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

**Arturo Cuomo**



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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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web if the team answers correctly they earn the assigned points if they answer incorrectly the other team has a chance to steal the points by answering the question correctly track each team's score throughout the game remember that the point of the game is to have fun and learn about recovery in the process

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