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*Complex Analysis, Lecture 19 [part 2/2], Afonso S. Bandeira, ETHZ Fall 2020* ~~Problems and Solutions~~ | ~~Journal~~ | ~~Subsidiary Books~~ | ~~CA CPT~~ | ~~CS \u0026 CMA Foundation~~ | ~~Class 11~~

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Solution. 1.No. The cover  $\mathcal{f} = \{ [1/n, 1] \mid n \in \mathbb{N} \}$  is an open cover of  $[0, 1]$  which has no finite subcover. 2.No. It can be written as  $[0, 1] = [0, 1/2] \cup [(1/2, 1]$ , which is a union of open sets in the induced topology on  $[0, 1]$  (note that  $[0, 1/2] = [0, 1] \setminus (1/2, 1]$ , open in the induced topology on  $[0, 1]$ ). Exercise 4.11.

*General Topology - Solutions to Problem Sheet 4*

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4 TOPOLOGY: NOTES AND PROBLEMS Remark 2.7 : Note that the co-countable topology is ner than the co- nite topology. 3. Basis for a Topology Let  $X$  be a set. A basis  $B$  for a topology on  $X$  is a collection of subsets of  $X$  such that (1) For each  $x \in X$ ; there exists  $B \in B$  such that  $x \in B$ : (2) If  $B_1, B_2 \in B$  for some  $B_1, B_2 \in B$  then there exists  $B \in B$  such that  $x \in B \subseteq B_1 \cap B_2$  ...

*TOPOLOGY: NOTES AND PROBLEMS*

Parent Topic: Topology Munkres (2000) Topology with Solutions Below are links to answers and solutions for exercises in the Munkres (2000) Topology, Second Edition .

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$\$$ \begin{group} Judging from my students turned-in work, virtually all of the problems from Munkres's "Topology" have solutions on-line in various fora.  $\$$ \end{group} – Cheerful Parsnip Jan 1 '16 at 5:42

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that are worked out in the text.

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Munkres - Topology - Chapter 2 Solutions Section 13 Problem 13.1. Let  $X$  be a topological space; let  $A$  be a subset of  $X$ . Suppose that for each  $x \in A$  there is an open set  $U$  containing  $x$  such that  $U \cap A$ . Show that  $A$  is open in  $X$ . Solution: Let  $\mathcal{C} = \{U \cap A \mid U \text{ open in } X, x \in U \cap A \text{ for some } x \in A\}$ . Suppose  $U_0 = \bigcup_{C \in \mathcal{C}} C$ . Since  $X$  is a topological space,  $U_0$  is open in  $X$ . Clearly if  $x \in A$ , then  $x \in U_0$ .

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Solution: Let  $\mathbb{R}$  be the space with the usual topology (i.e. based on the usual metric). Let  $A = \bigcup_{n \in \mathbb{N}} [1/n, 1/n + 1/n^2]$ . As  $[1/n, 1/n + 1/n^2]$  is open,  $A$  is closed. Now  $\mathbb{R} \setminus A = \bigcup_{n \in \mathbb{N}} (1/n + 1/n^2, 1/n)$ . But this is just  $\bigcup_{n \in \mathbb{N}} (1/n + 1/n^2, 1/n)$ , which is open as it is the union of two open intervals:  $(1/n + 1/n^2, 1/n)$ . Therefore, this union of closed sets is not closed. Problem 6

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J J Fingerman, The historical and philosophical significance of the emergence of point set topology (PhD Thesis, University of Chicago, 1981). V L Hansen, From geometry to topology (Danish), *Normat* 36 (2) (1988), 48-60. D M Johnson, The problem of the invariance of dimension in the growth of modern topology.

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This text contains a detailed introduction to general topology and an introduction to algebraic topology via its most classical and elementary segment. Proofs of theorems are separated from their formulations and are gathered at the end of each chapter, making this book appear like a problem book and also giving it appeal to the expert as a handbook. The book includes about 1,000 exercises.

The book offers a good introduction to topology through solved exercises. It is mainly intended for undergraduate students. Most exercises are given with detailed solutions. In the second edition, some significant changes have been made, other than the additional exercises. There are also additional proofs (as exercises) of many results in the old section "What You Need To Know", which has been improved and renamed in the new edition as "Essential Background". Indeed, it has been considerably beefed up as it now includes more remarks and results for readers' convenience. The interesting sections "True or False" and "Tests" have remained as they were, apart from a very few changes.

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This text explains nontrivial applications of metric space topology to analysis. Covers metric space, point-set topology, and algebraic topology. Includes exercises, selected answers, and 51 illustrations. 1983 edition.

The book offers a good introduction to topology through solved exercises. It is mainly intended for undergraduate students. Most exercises are given with detailed solutions. In the second edition, some significant changes have been made, other than the additional exercises. There are also additional proofs (as exercises) of many results in the old section 'What You Need To Know', which has been improved and renamed in the new edition as 'Essential Background'. Indeed, it has been considerably beefed up as it now includes more remarks and results for readers' convenience. The interesting sections 'True or False' and 'Tests' have remained as they were, apart from a very few changes.

For a senior undergraduate or first year graduate-level course in Introduction to Topology. Appropriate for a one-semester course on both general and algebraic topology or separate courses treating each topic separately. This text is designed to provide instructors with a convenient single text resource for bridging between general and algebraic topology courses. Two separate, distinct sections (one on general, point set topology, the other on algebraic topology) are each suitable for a one-semester course and are based around the same set of basic, core topics. Optional, independent topics and applications can be studied and developed in depth depending on course needs and preferences.

This book contains a selection of more than 500 mathematical problems and their solutions from the PhD qualifying examination papers of more than ten famous American universities. The mathematical



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problems cover six aspects of graduate school mathematics: Algebra, Topology, Differential Geometry, Real Analysis, Complex Analysis and Partial Differential Equations. While the depth of knowledge involved is not beyond the contents of the textbooks for graduate students, discovering the solution of the problems requires a deep understanding of the mathematical principles plus skilled techniques. For students, this book is a valuable complement to textbooks. Whereas for lecturers teaching graduate school mathematics, it is a helpful reference.

Concise undergraduate introduction to fundamentals of topology — clearly and engagingly written, and filled with stimulating, imaginative exercises. Topics include set theory, metric and topological spaces, connectedness, and compactness. 1975 edition.

An introductory textbook suitable for use in a course or for self-study, featuring broad coverage of the subject and a readable exposition, with many examples and exercises.

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