

# Munkres - Topology - Chapter 1 Solutions

## Section 3

**Problem 3.2.** Let  $C$  be a relation on a set  $A$ . If  $A_0 \subseteq A$ , define the restriction of  $C$  to  $A_0$  to be the relation  $C \cap (A_0 \times A_0)$ . Show that the restriction of an equivalence relation is an equivalence relation.

**Solution:** Let  $C'$  be the restriction of  $C$  to  $A_0$ . As an initial matter, clearly if  $(a, b) \in C'$ , then  $(a, b) \in C$ . Further, if  $(a, b) \in C$  and  $a, b \in A_0$ , then  $(a, b) \in C'$ . We will now show that the  $C'$  is an equivalence relation.

Let  $x_0 \in A_0$ . Since  $(x_0, x_0) \in C$ , it follows that  $(x_0, x_0) \in C'$ . Therefore  $C'$  is reflexive.

Let  $(x_1, y_1) \in C'$ . It follows that  $(y_1, x_1) \in C$ , so  $(y_1, x_1) \in C'$ . Therefore,  $C'$  is symmetric.

Let  $(x_2, y_2), (y_2, z_2) \in C'$ . It follows that  $(x_2, y_2) \in C$ , so  $(x_2, z_2) \in C$ . Therefore,  $C'$  is transitive. Since all the necessary properties are met,  $C'$  is an equivalence relation.

**Problem 3.4.** Let  $f : A \rightarrow B$  be a surjective function. Let us define a relation on  $A$  by setting  $a_0 \sim a_1$  if  $f(a_0) = f(a_1)$ . (a) Show that this is an equivalence relation. (b) Let  $A^*$  be the set of equivalence classes. Show there is a bijective correspondence of  $A^*$  with  $B$ .

**Solution: Part (a)** Suppose  $R$  is the relation of interest. Let  $a_0 \in A$ . Clearly  $f(a_0) = f(a_0)$ , so  $a_0 \sim a_0$ . It follows that  $R$  is reflexive. Now let  $a_0, a_1 \in A$  where  $a_0 \sim a_1$ . Since  $f(a_0) = f(a_1)$  implies that  $f(a_1) = f(a_0)$ , we infer that  $a_1 \sim a_0$ . It follows that  $R$  is symmetric. Finally, let  $a_0, a_1, a_2 \in A$  where  $a_0 \sim a_1$  and  $a_1 \sim a_2$ . We see that  $f(a_0) = f(a_1) = f(a_2)$ , so  $a_0 \sim a_2$ . Therefore,  $R$  is transitive. Accordingly,  $R$  is an equivalence relation.

**Part (b)** Let  $\mathcal{A}$  be the collection of equivalence classes of  $A$  of  $R$ , where if  $x \in A$ , there is an  $E_x \in \mathcal{A}$  such that  $E_x = \{y \in A : x \sim y\}$ . Let  $g : \mathcal{A} \rightarrow B$  where  $g(E_x) = f(x)$ . First we will show that  $g$  is injective. Let  $E_x, E_y \in \mathcal{A}$  and  $g(E_x) = g(E_y)$ . It follows that  $f(x) = f(y)$ , so  $x \in E_x$  and  $x \in E_y$ . Since  $E_x$  and  $E_y$  are not disjoint, we infer from Lemma 3.1 that  $E_x = E_y$ . Therefore,  $g$  is injective.

Now let  $b \in B$ . Since  $f$  is surjective, there is an  $a \in A$  such that  $f(a) = b$ . Therefore,  $g(E_a) = f(a) = b$ . Accordingly,  $g$  is surjective, from which it follows that  $g$  is a bijection from  $\mathcal{A}$  to  $B$ .

**Problem 3.10.** (a) Show that the map  $f : (-1, 1) \rightarrow \mathbb{R}$  of Example 9 is order preserving. (b) Show that the equation  $g(y) = 2y/[1 + (1 + 4y^2)^{1/2}]$  defines a function  $g : \mathbb{R} \rightarrow [-1, 1]$  that is both a left and a right inverse for  $f$ .

**Solution: Part (a)** Let  $A = (-1, 1)$ . The function  $f$  is order preserving if  $a_0 < a_1$  implies that  $f(a_0) < f(a_1)$  for all  $a_0, a_1 \in A$ . Now let  $x, y \in A$ . We may assume without loss of generality that  $x < y$ . We then have:

$$f(x) - f(y) = \frac{x - y}{(1 - x^2)(1 - y^2)} < 0,$$

because  $1 - x^2, 1 - y^2 > 0$  for all  $x, y \in A$ . It follows that  $f(x) < f(y)$ . The function  $f$  is therefore order preserving.

**Part (b)** This problem a straightforward (but annoying) substitution of  $f$  and  $g$  into each other. let  $x \in A$ . We then have:

$$(g \circ f)(x) = \left( \frac{2x}{1 - x^2} \right) \left( \frac{1}{1 + [1 + 4x^2/(1 - x^2)^2]^{1/2}} \right) = \frac{2x}{(1 - x^2) + (1 + x^2)} = x,$$

showing that  $g$  is a left inverse of  $f$ .

For  $(f \circ g)(y)$ , we can again do the substitution and show (through a lot of algebra) that  $(f \circ g)(y) = y$ . For  $y \in \mathbb{R}$ , we have:

$$(f \circ g)(y) = \left( \frac{2y}{1 + (1 + 4y^2)^{1/2}} \right) \left( \frac{1}{1 - 4y^2/[1 + (1 + 4y^2)^{1/2}]^2} \right) = \frac{2y(1 + (1 + 4y^2)^{1/2})}{2(1 + (1 + 4y^2)^{1/2})} = y,$$

showing that  $g$  is a right invoice for  $f$ .

**Problem 3.11.** Show that an element in an ordered set has at most one immediate successor and at most one immediate predecessor. Show that a subset of an ordered set has at most one smallest element and at most one largest element.

# Munkres Topology Solutions Chapter 1

**Ensheng Dong**



## **Munkres Topology Solutions Chapter 1:**

**Topologies and Uniformities** Ioan M. James, 2013-06-29 This book is based on lectures I have given to senior undergraduate and graduate audiences at Oxford and elsewhere over the years My aim has been to provide an outline of both the topological theory and the uniform theory with an emphasis on the relation between the two Although I hope that the prospective specialist may find it useful as an introduction it is the non specialist I have had more in mind in selecting the contents Thus I have tended to avoid the ingenious examples and counterexamples which often occupy much of the space in books on general topology and I have tried to keep the number of definitions down to the essential minimum There are no particular prerequisites but I have worked on the assumption that a potential reader will already have had some experience of working with sets and functions and will also be familiar with the basic concepts of algebra and analysis An earlier version of the present book appeared in 1987 under the title Topological and Uniform Spaces When the time came for a new edition I came to the conclusion that rather than just making the necessary corrections it would be better to make more substantial alterations Parts of the text have been rewritten and new material including new diagrams added [Lecture Notes On General Topology](#) Guoliang Wang, 2020-12-17 This book is intended as a one semester course in general topology a k a point set topology for undergraduate students as well as first year graduate students Such a course is considered a prerequisite for further studying analysis geometry manifolds and certainly for a career of mathematical research Researchers may find it helpful especially from the comprehensive indices General topology resembles a language in modern mathematics Because of this the book is with a concentration on basic concepts in general topology and the presentation is of a brief style both concise and precise Though it is hard to determine exactly which concepts therein are basic and which are not the author makes efforts in the selection according to personal experience on the occurrence frequency of notions in advanced mathematics and to related books that have received admirable reviews This book also contains exercises for each chapter with selected solutions Interrelationships among concepts are taken into account frequently Twelve particular topological spaces are repeatedly exploited which serve as examples to learn new concepts based on old ones [An Introduction to Riemannian Geometry](#) Leonor Godinho, José Natário, 2014-07-26 Unlike many other texts on differential geometry this textbook also offers interesting applications to geometric mechanics and general relativity The first part is a concise and self contained introduction to the basics of manifolds differential forms metrics and curvature The second part studies applications to mechanics and relativity including the proofs of the Hawking and Penrose singularity theorems It can be independently used for one semester courses in either of these subjects The main ideas are illustrated and further developed by numerous examples and over 300 exercises Detailed solutions are provided for many of these exercises making An Introduction to Riemannian Geometry ideal for self study *Nonlinear Dynamics and Chaos with Student Solutions Manual* Steven H. Strogatz, 2018-09-21 This textbook is aimed at newcomers to nonlinear dynamics and chaos especially students

taking a first course in the subject The presentation stresses analytical methods concrete examples and geometric intuition The theory is developed systematically starting with first order differential equations and their bifurcations followed by phase plane analysis limit cycles and their bifurcations and culminating with the Lorenz equations chaos iterated maps period doubling renormalization fractals and strange attractors

### **Office Hours with a Geometric Group Theorist** Matt

Clay,Dan Margalit,2017-07-11 Geometric group theory is the study of the interplay between groups and the spaces they act on and has its roots in the works of Henri Poincaré Felix Klein J H C Whitehead and Max Dehn Office Hours with a Geometric Group Theorist brings together leading experts who provide one on one instruction on key topics in this exciting and relatively new field of mathematics It s like having office hours with your most trusted math professors An essential primer for undergraduates making the leap to graduate work the book begins with free groups actions of free groups on trees algorithmic questions about free groups the ping pong lemma and automorphisms of free groups It goes on to cover several large scale geometric invariants of groups including quasi isometry groups Dehn functions Gromov hyperbolicity and asymptotic dimension It also delves into important examples of groups such as Coxeter groups Thompson s groups right angled Artin groups lamplighter groups mapping class groups and braid groups The tone is conversational throughout and the instruction is driven by examples Accessible to students who have taken a first course in abstract algebra Office Hours with a Geometric Group Theorist also features numerous exercises and in depth projects designed to engage readers and provide jumping off points for research projects

### *Books in Print* ,1982

*Elements of Algebraic Topology* James R. Munkres,Steven G. Krantz,Harold R. Parks,2025-05-27 This classic text appears here in a new edition for the first time in four decades The new edition with the aid of two new authors brings it up to date for a new generation of mathematicians and mathematics students *Elements of Algebraic Topology* provides the most concrete approach to the subject With coverage of homology and cohomology theory universal coefficient theorems Kunneth theorem duality in manifolds and applications to classical theorems of point set topology this book is perfect for communicating complex topics and the fun nature of algebraic topology for beginners This second edition retains the essential features of the original book Most of the notation and terminology are the same There are some useful additions There is a new introduction to homotopy theory A new Index of Notation is included Many new exercises are added Algebraic topology is a cornerstone of modern mathematics Every working mathematician should have at least an acquaintance with the subject This book which is based largely on the theory of triangulations provides such an introduction It should be accessible to a broad cross section of the profession both students and senior mathematicians Students should have some familiarity with general topology

### **Using the**

**Borsuk-Ulam Theorem** Jiri Matousek,2008-01-12 To the uninitiated algebraic topology might seem fiendishly complex but its utility is beyond doubt This brilliant exposition goes back to basics to explain how the subject has been used to further our understanding in some key areas A number of important results in combinatorics discrete geometry and theoretical computer

science have been proved using algebraic topology While the results are quite famous their proofs are not so widely understood This book is the first textbook treatment of a significant part of these results It focuses on so called equivariant methods based on the Borsuk Ulam theorem and its generalizations The topological tools are intentionally kept on a very elementary level No prior knowledge of algebraic topology is assumed only a background in undergraduate mathematics and the required topological notions and results are gradually explained

**One Complex Variable from the Several Variable Point of View** Peter V. Dovbush, Steven G. Krantz, 2025-06-30 Traditionally speaking those who study the function theory of one complex variable spend little or no time thinking about several complex variables Conversely experts in the function theory of several complex variables do not consider one complex variable One complex variable is the inspiration and testing ground for several complex variables and several complex variables are the natural generalization of one complex variable The authors thesis here is that these two subject areas have much in common These subject areas can gain a lot by learning to communicate with each other These two fields are logically connected and each can be used to explain and put the other into context This is the purpose of this book The point of view and the methodology of the two subject areas are quite different One complex variable is an aspect of traditional hard analysis Several complex variables are more like algebraic geometry and differential equations with some differential geometry thrown in The authors intend to create a marriage of the function theory of one complex variable and the function theory of several complex variables leading to a new and productive dialogue between the two disciplines The hope is for this book to foster and develop this miscegenation in a manner that leads to new collaborations and developments There is much fertile ground here and this book aims to breathe new life into it

**Aspects of Combinatorics and Combinatorial Number Theory** Sukumar Das Adhikari, 2002      **The Structure of Applied General Equilibrium Models** Victor Ginsburgh, Michiel Keyzer, 2002 Bridges the gap between applied and theoretical general equilibrium models      *Qualitative Theory of Differentiable Dynamical Systems* Shantao Liao, 1996      *A Handbook for Mathematics Teaching Assistants* Thomas Rishel, 1999      [Understanding Analysis](#) Tanmay Shroff, 2025-02-20

Understanding Analysis Foundations and Applications is an essential textbook crafted to provide undergraduate students with a solid foundation in mathematical analysis Analysis is a fundamental branch of mathematics that explores limits continuity differentiation integration and convergence forming the bedrock of calculus and advanced mathematical reasoning We offer a clear and structured approach starting with basic concepts such as sets functions and real numbers The book then delves into core calculus topics including limits continuity differentiation and integration with a focus on rigor and conceptual understanding Through intuitive explanations illustrative examples and practical exercises readers are guided through the intricacies of analysis enhancing their mathematical intuition and problem solving skills Emphasizing logical reasoning and mathematical rigor Understanding Analysis equips students with the tools and techniques needed to tackle advanced topics in mathematics and related fields Whether you re a mathematics major an engineering or science student or

simply curious about the beauty of mathematical analysis this book will serve as your indispensable guide to mastering these principles and applications      An Invitation to Real Analysis Andrew D. Hwang, 2025-10-24 Adopting a student cantered approach this book anticipates and addresses the common challenges that students face when learning abstract concepts like limits continuity and inequalities The text introduces these concepts gradually giving students a clear pathway to understanding the mathematical tools that underpin much of modern science and technology In addition to its focus on accessibility the book maintains a strong emphasis on mathematical rigor It provides precise careful definitions and explanations while avoiding common teaching pitfalls ensuring that students gain a deep understanding of core concepts Blending algebraic and geometric perspectives to help students see the full picture The theoretical results presented in the book are consistently applied to practical problems By providing a clear and supportive introduction to real analysis the book equips students with the tools they need to confidently engage with both theoretical mathematics and its wide array of practical applications Features Student Friendly Approach making abstract concepts relatable and engaging Balanced Focus combining algebraic and geometric perspectives Comprehensive Coverage Covers a full range of topics from real numbers and sequences to metric spaces and approximation theorems while carefully building upon foundational concepts in a logical progression Emphasis on Clarity Provides precise explanations of key mathematical definitions and theorems avoiding common pitfalls in traditional teaching Perfect for a One Semester Course Tailored for a first course in real analysis Problems exercises and solutions      *AAAI 99* American Association for Artificial Intelligence, 1999 AAAI proceedings describe innovative concepts techniques perspectives and observations that present promising research directions in artificial intelligence The annual AAAI National Conference and Innovative Applications of Artificial Intelligence Conference provide a forum for information exchange and interaction among researchers from all disciplines of AI Contributions include theoretical experimental and empirical results The technical papers published in this proceedings were selected by a rigorous double blind review process The National Conference papers cover a myriad of topics including agents artificial intelligence and the world wide web cognitive systems constraint satisfaction problems knowledge acquisition knowledge representation learning model based reasoning natural language and information retrieval planning robotics satisfiability scheduling search tractable reasoning and vision The Innovative Applications Conference papers feature deployed and emerging applications These papers will be of special benefit to AI applications developers In addition abstracts from the Invited talks Intelligent Systems Demonstrations Robotic Competition and Exhibition SIGART AAAI Doctoral Consortium and Student programs are also included in this proceedings      *Foundations of Elementary Analysis* Roshan Trivedi, 2025-02-20 *Foundations of Elementary Analysis* offers a comprehensive exploration of fundamental mathematical concepts tailored for undergraduate students Designed as a bridge between introductory calculus and advanced mathematical analysis we provide a solid foundation in mathematical reasoning and analysis Through a systematic and accessible approach we cover essential

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