

Homework 4 Solutions

Prof. Dr. Alexander
May 2020

The following solutions are based on the book *Mathematical Analysis for Engineers* (Hanser, 2018) (link: <https://www.hanser.de/9783708924293>).

10.1. Let $\{x_n\}_{n \in \mathbb{N}}$ and $\{y_n\}_{n \in \mathbb{N}}$ be arbitrary convergent series. Show that the series $\{x_n + y_n\}_{n \in \mathbb{N}}$ converges.

Solution: Since $\{x_n\}_{n \in \mathbb{N}}$ and $\{y_n\}_{n \in \mathbb{N}}$ converge, by Theorem 10.1, $\{x_n\}_{n \in \mathbb{N}}$ and $\{y_n\}_{n \in \mathbb{N}}$ converge to real numbers x and y , respectively.

$$\sqrt{(x_n + y_n)^2} = \sqrt{(x_n)^2 + (y_n)^2} \leq \sqrt{(x_n)^2} + \sqrt{(y_n)^2} = |x_n| + |y_n|$$

By the Theorem 10.2 (Comparison Test), since $\{x_n\}_{n \in \mathbb{N}}$ and $\{y_n\}_{n \in \mathbb{N}}$ converge absolutely, we see that $\{x_n + y_n\}_{n \in \mathbb{N}}$ converges absolutely, and hence converges to the sum of the limits.

10.2. Show that every convergent series of real numbers converges to 0. Show that the converse of this proposition is false for the series $\sum_{n=1}^{\infty} (-1)^n$.

Solution:

Let $\{x_n\}_{n \in \mathbb{N}}$ be a series
from $\mathbb{R}$ that

$$\lim_{n \rightarrow \infty} \left| \frac{x_{n+1}}{x_n} \right| = \lim_{n \rightarrow \infty} \left| \frac{x_{n+1}}{x_n} \right| = 1$$

we see that every convergent series has a limit of 0. (Theorem 10.1)

Let $\{x_n\}_{n \in \mathbb{N}}$ be a series
from $\mathbb{R}$ that

$$\lim_{n \rightarrow \infty} \left| \frac{x_{n+1}}{x_n} \right| = \lim_{n \rightarrow \infty} \left| \frac{x_{n+1}}{x_n} \right| = 1$$

we see that every convergent series has a limit of 0. (Theorem 10.1) From Theorem 10.1, if $\sum_{n=1}^{\infty} (-1)^n$ converges, then $\lim_{n \rightarrow \infty} (-1)^n = 0$. But $\lim_{n \rightarrow \infty} (-1)^n = 1$, so the series does not converge.

Let $\{x_n\}_{n \in \mathbb{N}}$ be a series
from $\mathbb{R}$ that

$$\lim_{n \rightarrow \infty} \left| \frac{x_{n+1}}{x_n} \right| = \lim_{n \rightarrow \infty} \left| \frac{x_{n+1}}{x_n} \right| = 1$$

we see that every convergent series has a limit of 0. (Theorem 10.1) From Theorem 10.1, if $\sum_{n=1}^{\infty} (-1)^n$ converges, then $\lim_{n \rightarrow \infty} (-1)^n = 0$. But $\lim_{n \rightarrow \infty} (-1)^n = 1$, so the series does not converge.

Let $\{x_n\}_{n \in \mathbb{N}}$ be a series
from $\mathbb{R}$ that

(a) $\lim_{n \rightarrow \infty} x_n = 0$ and (b) $\lim_{n \rightarrow \infty} \left| \frac{x_{n+1}}{x_n} \right| = 1$. Show that the series converges to 0.

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Mathematical Analysis Bernd S. W. Schröder, 2008-01-28 A self contained introduction to the fundamentals of mathematical analysis *Mathematical Analysis A Concise Introduction* presents the foundations of analysis and illustrates its role in mathematics By focusing on the essentials reinforcing learning through exercises and featuring a unique learn by doing approach the book develops the reader's proof writing skills and establishes fundamental comprehension of analysis that is essential for further exploration of pure and applied mathematics This book is directly applicable to areas such as differential equations probability theory numerical analysis differential geometry and functional analysis *Mathematical Analysis* is composed of three parts Part One presents the analysis of functions of one variable including sequences continuity differentiation Riemann integration series and the Lebesgue integral A detailed explanation of proof writing is provided with specific attention devoted to standard proof techniques To facilitate an efficient transition to more abstract settings the results for single variable functions are proved using methods that translate to metric spaces Part Two explores the more abstract counterparts of the concepts outlined earlier in the text The reader is introduced to the fundamental spaces of analysis including L_p spaces and the book successfully details how appropriate definitions of integration continuity and differentiation lead to a powerful and widely applicable foundation for further study of applied mathematics The interrelation between measure theory topology and differentiation is then examined in the proof of the Multidimensional Substitution Formula Further areas of coverage in this section include manifolds Stokes Theorem Hilbert spaces the convergence of Fourier series and Riesz Representation Theorem Part Three provides an overview of the motivations for analysis as well as its applications in various subjects A special focus on ordinary and partial differential equations presents some theoretical and practical challenges that exist in these areas Topical coverage includes Navier Stokes equations and the finite element method *Mathematical Analysis A Concise Introduction* includes an extensive index and over 900 exercises ranging in level of difficulty from conceptual questions and adaptations of proofs to proofs with and without hints These opportunities for reinforcement along with the overall concise and well organized treatment of analysis make this book essential for readers in upper undergraduate or beginning graduate mathematics courses who would like to build a solid foundation in analysis for further work in all analysis based branches of mathematics

Flow Networks Michael T. Todinov, 2013-01-16 Repairable flow networks are a new area of research which analyzes the repair and flow disruption caused by failures of components in static flow networks This book addresses a gap in current network research by developing the theory algorithms and applications related to repairable flow networks and networks with disturbed flows The theoretical results presented in the book lay the foundations of a new generation of ultra fast algorithms for optimizing the flow in networks after failures or congestion and the high computational speed creates the powerful possibility of optimal control of very large and complex networks in real time Furthermore the possibility for re optimizing the network flows in real time increases significantly the

yield from real production networks and reduces to a minimum the flow disruption caused by failures The potential application of repairable flow networks reaches across many large and complex systems including active power networks telecommunication networks oil and gas production networks transportation networks water supply networks emergency evacuation networks and supply networks The book reveals a fundamental flaw in classical algorithms for maximising the throughput flow in networks published since the creation of the theory of flow networks in 1956 Despite the years of intensive research the classical algorithms for maximising the throughput flow leave highly undesirable directed loops of flow in the optimised networks These flow loops are associated with wastage of energy and resources and increased levels of congestion in the optimised networks Includes theory and practical examples to build a deep understanding of the issues Written by the leading scholar and researcher in this emerging field Features powerful software tools for analysis optimization and control of repairable flow networks *Mathematical Reviews* ,1985 **Reshaping College**

Mathematics Mathematical Association of America. Committee on the Undergraduate Program in Mathematics,1989

Discrete Mathematics Richard Johnsonbaugh,1993 This best selling book provides an accessible introduction to discrete mathematics through an algorithmic approach that focuses on problem solving techniques This edition has the techniques of proofs woven into the text as a running theme and each chapter has the problem solving corner The text provides complete coverage of Logic and Proofs Algorithms Counting Methods and the Pigeonhole Principle Recurrence Relations Graph Theory Trees Network Models Boolean Algebra and Combinatorial Circuits Automata Grammars and Languages Computational Geometry For individuals interested in mastering introductory discrete mathematics The Education Index ,1980 *American Doctoral Dissertations* ,1968 **Technical Association of the Pulp and Paper**

Industry ,1975 **The Cumulative Book Index** ,1989 A world list of books in the English language Subject Guide to Books in Print ,2001 Forthcoming Books Rose Arny,2003 *Books in Print Supplement* ,2002 *Mathematical Analysis* Mariano Giaquinta,Giuseppe Modica,2009-04-14 This superb and self contained work is an introductory presentation of basic ideas structures and results of differential and integral calculus for functions of several variables The wide range of topics covered include the differential calculus of several variables including differential calculus of Banach spaces the relevant results of Lebesgue integration theory and systems and stability of ordinary differential equations An appendix highlights important mathematicians and other scientists whose contributions have made a great impact on the development of theories in analysis This text motivates the study of the analysis of several variables with examples observations exercises and illustrations It may be used in the classroom setting or for self study by advanced undergraduate and graduate students and as a valuable reference for researchers in mathematics physics and engineering **Problems in Real Analysis** Teodora-Liliana Radulescu,Vicentiu D. Radulescu,Titu Andreescu,2009-05-29 Problems in Real Analysis Advanced Calculus on the Real Axis features a comprehensive collection of challenging problems in mathematical analysis that aim to promote

creative non standard techniques for solving problems This self contained text offers a host of new mathematical tools and strategies which develop a connection between analysis and other mathematical disciplines such as physics and engineering A broad view of mathematics is presented throughout the text is excellent for the classroom or self study It is intended for undergraduate and graduate students in mathematics as well as for researchers engaged in the interplay between applied analysis mathematical physics and numerical analysis

Solving Problems in Mathematical Analysis, Part II Tomasz Radożycki, 2020-02-22 This textbook offers an extensive list of completely solved problems in mathematical analysis This second of three volumes covers definite improper and multidimensional integrals functions of several variables differential equations and more The series contains the material corresponding to the first three or four semesters of a course in Mathematical Analysis Based on the author's years of teaching experience this work stands out by providing detailed solutions often several pages long to the problems The basic premise of the book is that no topic should be left unexplained and no question that could realistically arise while studying the solutions should remain unanswered The style and format are straightforward and accessible In addition each chapter includes exercises for students to work on independently Answers are provided to all problems allowing students to check their work Though chiefly intended for early undergraduate students of Mathematics Physics and Engineering the book will also appeal to students from other areas with an interest in Mathematical Analysis either as supplementary reading or for independent study

A Collection of Problems on a Course of Mathematical Analysis G. N. Berman, 2016-06-06 A Collection of Problems on a Course of Mathematical Analysis is a collection of systematically selected problems and exercises with corresponding solutions in mathematical analysis A common instruction precedes a group of problems of the same type Problems with a physics content are preceded by the necessary physical laws In the case of more or less difficult problems hints are given in the answers This book is comprised of 15 chapters and begins with an overview of functions and methods of specifying them notation for and classification of functions elementary investigation of functions and trigonometric and inverse trigonometric functions The following chapters deal with limits and tests for their existence differential calculus with emphasis on derivatives and differentials functions and curves definite and indefinite integrals and methods of evaluating definite integrals Some applications of the integral in geometry statics and physics are also considered along with functions of several variables multiple integrals and iterated integration line and surface integrals and differential equations The final chapter is devoted to trigonometric series This monograph is intended for students studying mathematical analysis within the framework of a technical college course

Mathematical Analysis I Claudio Canuto, Anita Tabacco, 2008-08-04 The recent European Programme Specification has forced a reassessment of the structure and syllabus of the entire system of Italian higher education and a ensuing rethinking of the teaching material Nowadays many lecture courses especially rudimentary ones demand that students master a large amount of theoretical and practical knowledge in a span of just few weeks in order to gain a

small number of credits. As a result, instructors face the dilemma of how to present the subject matter. They must make appropriate choices about lecture content, the comprehension level required from the recipients, and which kind of language to use.

Introductory Mathematical Analysis for Students of Business and Economics Ernest F. Haeussler, Richard S. Paul, 1976

Problems in Mathematical Analysis: Continuity and differentiation Wiesława J. Kaczor, Maria T. Nowak, 2000

We learn by doing. We learn mathematics by doing problems. And we learn more mathematics by doing more problems. This is the sequel to *Problems in Mathematical Analysis I*, Volume 4 in the Student Mathematical Library series. If you want to hone your understanding of continuous and differentiable functions, this book contains hundreds of problems to help you do so. The emphasis here is on real functions of a single variable. The topics include continuous functions, the intermediate value property, uniform continuity, mean value theorems, Taylor's formula, convex functions, sequences, and series of functions. The book is mainly geared toward students studying the basic principles of analysis. However, given its selection of problems, organization, and level, it would be an ideal choice for tutorial or problem-solving seminars, particularly those geared toward the Putnam exam. It is also suitable for self-study. The presentation of the material is designed to help student comprehension, to encourage them to ask their own questions, and to start research. The collection of problems will also help teachers who wish to incorporate problems into their lectures. The problems are grouped into sections according to the methods of solution. Solutions for the problems are provided. This is the sequel to *Problems in Mathematical Analysis I*, Volume 4 in the Student Mathematical Library series. Also available from the AMS is *Problems in Analysis III*.

Mathematical Analysis and Applications—Plenary Lectures Luigi G. Rodino, Joachim Toft, 2018-11-11

This book includes the texts of the survey lectures given by plenary speakers at the 11th International ISAAC Congress held in Växjö, Sweden, on 14–18 August 2017. It is the purpose of ISAAC to promote analysis, its applications, and its interaction with computation. Analysis is understood here in the broad sense of the word, including differential equations, integral equations, functional analysis, and function theory. With this objective, ISAAC organizes international Congresses for the presentation and discussion of research on analysis. The plenary lectures in the present volume, authored by eminent specialists, are devoted to some exciting recent developments, topics including local solvability for subprincipal type operators, fractional order Laplacians, degenerate complex vector fields in the plane, lower bounds for pseudo-differential operators, a survey on Morrey spaces, localization operators in Signal Theory and Quantum Mechanics. Thanks to the accessible style used, readers only need a basic command of Calculus. This book will appeal to scientists, teachers, and graduate students in Mathematics, in particular Mathematical Analysis, Probability and Statistics, Numerical Analysis, and Mathematical Physics.

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Table of Contents Homework Mathematical Analysis Johnsonbaugh

1. Understanding the eBook Homework Mathematical Analysis Johnsonbaugh
 - The Rise of Digital Reading Homework Mathematical Analysis Johnsonbaugh
 - Advantages of eBooks Over Traditional Books
2. Identifying Homework Mathematical Analysis Johnsonbaugh
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Homework Mathematical Analysis Johnsonbaugh
 - User-Friendly Interface
4. Exploring eBook Recommendations from Homework Mathematical Analysis Johnsonbaugh
 - Personalized Recommendations
 - Homework Mathematical Analysis Johnsonbaugh User Reviews and Ratings
 - Homework Mathematical Analysis Johnsonbaugh and Bestseller Lists
5. Accessing Homework Mathematical Analysis Johnsonbaugh Free and Paid eBooks
 - Homework Mathematical Analysis Johnsonbaugh Public Domain eBooks
 - Homework Mathematical Analysis Johnsonbaugh eBook Subscription Services
 - Homework Mathematical Analysis Johnsonbaugh Budget-Friendly Options

6. Navigating Homework Mathematical Analysis Johnsonbaugh eBook Formats
 - ePub, PDF, MOBI, and More
 - Homework Mathematical Analysis Johnsonbaugh Compatibility with Devices
 - Homework Mathematical Analysis Johnsonbaugh Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Homework Mathematical Analysis Johnsonbaugh
 - Highlighting and Note-Taking Homework Mathematical Analysis Johnsonbaugh
 - Interactive Elements Homework Mathematical Analysis Johnsonbaugh
8. Staying Engaged with Homework Mathematical Analysis Johnsonbaugh
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Homework Mathematical Analysis Johnsonbaugh
9. Balancing eBooks and Physical Books Homework Mathematical Analysis Johnsonbaugh
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Homework Mathematical Analysis Johnsonbaugh
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Homework Mathematical Analysis Johnsonbaugh
 - Setting Reading Goals Homework Mathematical Analysis Johnsonbaugh
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Homework Mathematical Analysis Johnsonbaugh
 - Fact-Checking eBook Content of Homework Mathematical Analysis Johnsonbaugh
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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