

Complex Analysis, Stein and Shakarchi

Chapter 3 Meromorphic Functions and the Logarithm

Yung-Hsiang Huang*

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Exercises

1. From the identity $\sin \pi z = \frac{e^{i\pi z} - e^{-i\pi z}}{2i}$, it's easy to show its zeros are exactly $n \in \mathbb{Z}$. Each of them is of order 1 by showing $(\frac{d}{dz} \sin \pi z)(n) \neq 0$. The residue of $\frac{1}{\sin \pi z}$ at $z = n$ is $\frac{(-1)^n}{\pi}$ by computing $\lim_{z \rightarrow n} \frac{z-n}{\sin \pi z}$ with the weak form of L'Hôpital's Rule.

2. Evaluate the integral

$$\int_{\mathbb{R}} \frac{dx}{1+x^2}$$

Proof. The computation is standard, see [1] Section 11.1

□

3. It's standard to compute the Fourier transform of 1-d Poisson Kernel for upper half plane. We omit it.
4. It's also standard to compute the Fourier transform of the conjugated Poisson Kernel (which is related to the Hilbert transform). We omit it.
5. Use contour integration to show that

$$\int_{\mathbb{R}} \frac{e^{-2\pi i \xi x}}{(1+x^2)^2} dx = \frac{\pi}{2} (1 + 2\pi |\xi|) e^{-2\pi |\xi|}$$

for all $\xi \in \mathbb{R}$.

Proof.

□

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Stein Shakarchi Complex Analysis Solutions

Michael Rajnik



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Problems and Solutions for Complex Analysis Rami Shakarchi, 1999-10-14 All the exercises plus their solutions for Serge Lang's fourth edition of Complex Analysis ISBN 0 387 98592 1 The problems in the first 8 chapters are suitable for an introductory course at undergraduate level and cover power series Cauchy's theorem Laurent series singularities and meromorphic functions the calculus of residues conformal mappings and harmonic functions The material in the remaining 8 chapters is more advanced with problems on Schwartz reflection analytic continuation Jensen's formula the Phragmen Lindelof theorem entire functions Weierstrass products and meromorphic functions the Gamma function and Zeta function Also beneficial for anyone interested in learning complex analysis

Functional Analysis and Applications Shiqing Zhang, 2026-01-01 The core of this book is variational methods and their applications in geometry physics mechanics engineering control and economics The author set out to solve the classical and famous problems including Isoperimetric Problem Brachistochrone Curve Problem N Body Problems Geodesic Curve Problem Minimal Surface Problem Dirichlet Principle Minimax Problems Rabinowitz Minimal Period Conjecture etc The book contains many interesting historic backgrounds and important examples explains profound theories in simple language which can help readers to follow in order and advance step by step The proofs for very difficult theorems are also clearly expressed and all chapters and appendixes are very well written The book has 8 organized appendixes that are important and appropriate supplements to the main texts Appendices 1 to 7 are related with some famous classical theorems while Appendix 8 is related with the famous Rabinowitz's minimum period conjecture The level of this book is between the textbook for graduate students and monograph The prerequisites on Calculus Classical Mechanics Ordinary Differential Equations and Real and Functional Analysis are required It is very useful for graduate students in mathematics physics mechanics and related engineering majors who want to improve their knowledge in Nonlinear Sciences

The Probability Lifesaver Steven J. Miller, 2017-05-16 The essential lifesaver for students who want to master probability For students learning probability its numerous applications techniques and methods can seem intimidating and overwhelming That's where The Probability Lifesaver steps in Designed to serve as a complete stand alone introduction to the subject or as a supplement for a course this accessible and user friendly study guide helps students comfortably navigate probability's terrain and achieve positive results The Probability Lifesaver is based on a successful course that Steven Miller has taught at Brown University Mount Holyoke College and Williams College With a relaxed and informal style Miller presents the math with thorough reviews of prerequisite materials worked out problems of varying difficulty and proofs He explores a topic first to build intuition and only after that does he dive into technical details Coverage of topics is comprehensive and materials are repeated for reinforcement both in the guide and on the book's website An appendix goes over proof techniques and video lectures of the course are available online Students using this book should have some familiarity with algebra and precalculus The

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functions on hyperelliptic surfaces and connections between the theories of orthogonal polynomials on the unit circle and on the real line

Iterative Methods and Preconditioners for Systems of Linear Equations Gabriele Ciaramella, Martin J. Gander, 2022-02-08 Iterative methods use successive approximations to obtain more accurate solutions This book gives an introduction to iterative methods and preconditioning for solving discretized elliptic partial differential equations and optimal control problems governed by the Laplace equation for which the use of matrix free procedures is crucial All methods are explained and analyzed starting from the historical ideas of the inventors which are often quoted from their seminal works Iterative Methods and Preconditioners for Systems of Linear Equations grew out of a set of lecture notes that were improved and enriched over time resulting in a clear focus for the teaching methodology which derives complete convergence estimates for all methods illustrates and provides MATLAB codes for all methods and studies and tests all preconditioners first as stationary iterative solvers This textbook is appropriate for undergraduate and graduate students who want an overview or deeper understanding of iterative methods Its focus on both analysis and numerical experiments allows the material to be taught with very little preparation since all the arguments are self contained and makes it appropriate for self study as well It can be used in courses on iterative methods Krylov methods and preconditioners and numerical optimal control Scientists and engineers interested in new topics and applications will also find the text useful

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Mathematical Reviews, 2004 **Rendiconti di matematica e delle sue applicazioni**, 2008

The American Mathematical Monthly, 2008 Solutions Manual for Complex Analysis and Applications Jeffrey Alan, 2005-07 *Books In Print 2004-2005* Ed Bowker Staff, Staff Bowker, Ed, 2004

A Complete Solution Guide to Complex Analysis Kit-Wing Yu, 2020-01-19 This is a complete solution guide to all exercises in Bak and Newman's Complex Analysis The features of this book are as follows It covers all the 300 exercises with detailed and complete solutions There are 34 illustrations for explaining the mathematical concepts or ideas used behind the questions or theorems Different colors are used in order to highlight or explain problems lemmas remarks main points formulas involved or show the steps of manipulation in some complicated proofs ebook only Necessary lemmas with proofs are provided Useful or relevant

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