Complex Analysis, Stein and Shakarchi
Chapter 3   Meromorphic Functions and the Logarithm

Yung-Hsiang Huang*

2017.11.05

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 $\lim_{z \to n} \frac{z-n}{\sin \pi z}$ with the weak form of L'Hôpital's Rule.

2. Evaluate the integral

$$\int_{\mathbb{R}} \frac{dx}{1 + x^4}.$$

   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

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

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

   Proof.   □

*Department of Math., National Taiwan University. Email: d04221001@ntu.edu.tw

Solutions Complex Analysis Stein Shakarchi

WJ Hussar

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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 Lindeloef 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** Elias M. Stein,Rami Shakarchi,2011-08-22 This is the fourth and final volume in the Princeton Lectures in Analysis a series of textbooks that aim to present in an integrated manner the core areas of analysis Beginning with the basic facts of functional analysis this volume looks at Banach spaces Lp spaces and distribution theory and highlights their roles in harmonic analysis The authors then use the Baire category theorem to illustrate several points including the existence of Besicovitch sets The second half of the book introduces readers to other central topics in analysis such as probability theory and Brownian motion which culminates in the solution of Dirichlet s problem The concluding chapters explore several complex variables and oscillatory integrals in Fourier analysis and illustrate applications to such diverse areas as nonlinear dispersion equations and the problem of counting lattice points Throughout the book the authors focus on key results in each area and stress the organic unity of the subject A comprehensive and authoritative text that treats some of the main topics of modern analysis A look at basic functional analysis and its applications in harmonic analysis probability theory and several complex variables Key results in each area discussed in relation to other areas of mathematics Highlights the organic unity of large areas of analysis traditionally split into subfields Interesting exercises and problems illustrate ideas Clear proofs provided   *Complex Analysis* Rubí E. Rodríguez,Irwin Kra,Jane P. Gilman,2012-11-28 This book is intended for a graduate course in complex analysis where the main focus is the theory of complex valued functions of a single complex variable This theory is a prerequisite for the study of many areas of mathematics including the theory of several finitely and infinitely many complex variables hyperbolic geometry two and three manifolds and number theory Complex analysis has connections and applications to many other subjects in mathematics and to other sciences Thus this material will also be of interest to computer scientists physicists and engineers The book covers most if not all of the material contained in Lipman Bers s courses on first year complex analysis In addition topics of current interest such as zeros of holomorphic functions and the connection between hyperbolic geometry and complex analysis are explored In addition to many new exercises this second edition introduces a variety of new and interesting topics New features include a section on Bers s theorem on isomorphisms between rings of holomorphic functions on plane domains necessary and sufficient conditions for the existence of a bounded

analytic function on the disc with prescribed zeros sections on subharmonic functions and Perron s principle and a section on the ring of holomorphic functions on a plane domain There are three new appendices the first is a contribution by Ranjan Roy on the history of complex analysis the second contains background material on exterior differential calculus and the third appendix includes an alternate approach to the Cauchy theory   **A Complex Analysis Problem Book** Daniel Alpay,2016-10-26 This second edition presents a collection of exercises on the theory of analytic functions including completed and detailed solutions It introduces students to various applications and aspects of the theory of analytic functions not always touched on in a first course while also addressing topics of interest to electrical engineering students e g the realization of rational functions and its connections to the theory of linear systems and state space representations of such systems It provides examples of important Hilbert spaces of analytic functions in particular the Hardy space and the Fock space and also includes a section reviewing essential aspects of topology functional analysis and Lebesgue integration Benefits of the 2nd edition Rational functions are now covered in a separate chapter Further the section on conformal mappings has been expanded   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   **Analysis as a Life** Sergei Rogosin,Ahmet Okay Çelebi,2019-01-30 This is a book comprising selected papers of colleagues and friends of Heinrich Begehr on the occasion of his 80th birthday It aims at being a tribute to the excellent achievements of Heinrich Begehr in complex analysis and complex differential equations and especially to his prominent role as one of the creators and long time leader of the International Society for Analysis its Applications and Computation ISAAC   **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

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Complex Analysis Elias M. Stein,Rami Shakarchi,2010-04-22 With this second volume we enter the intriguing world of complex analysis From the first theorems on the elegance and sweep of the results is evident The starting point is the simple idea of extending a function initially given for real values of the argument to one that is defined when the argument is complex From there one proceeds to the main properties of holomorphic functions whose proofs are generally short and quite illuminating the Cauchy theorems residues analytic continuation the argument principle With this background the reader is ready to learn a wealth of additional material connecting the subject with other areas of mathematics the Fourier transform treated by contour integration the zeta function and the prime number theorem and an introduction to elliptic functions culminating in their application to combinatorics and number theory Thoroughly developing a subject with many ramifications while striking a careful balance between conceptual insights and the technical underpinnings of rigorous analysis Complex Analysis will be welcomed by students of mathematics physics engineering and other sciences The Princeton Lectures in Analysis represents a sustained effort to introduce the core areas of mathematical analysis while also illustrating the organic unity between them Numerous examples and applications throughout its four planned volumes of which Complex Analysis is the second highlight the far reaching consequences of certain ideas in analysis to other fields of mathematics and a variety of sciences Stein and Shakarchi move from an introduction addressing Fourier series and integrals to in depth considerations of complex analysis measure and integration theory and Hilbert spaces and finally further topics such as functional analysis distributions and elements of probability theory   <u>Mathematical Reviews</u> ,2005   *Rendiconti di matematica e delle sue applicazioni* ,2008   *Books In Print 2004-2005* Ed Bowker Staff,Staff Bowker, Ed,2004   **Orthogonal Polynomials on the Unit Circle** Barry Simon,2005   **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

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   Complex Analysis with Applications Nakhlé H. Asmar,Loukas Grafakos,2018-10-12 This textbook is intended for a one semester course in complex analysis for upper level undergraduates in mathematics Applications primary motivations for this text are presented hand in hand with theory enabling this text to serve well in courses for students in engineering or applied sciences The overall aim in designing this text is to accommodate students of different mathematical backgrounds and to achieve a balance between presentations of rigorous mathematical proofs and applications The text is adapted to enable maximum flexibility to instructors and to students who may also choose to progress through the material outside of coursework Detailed examples may be covered in one course giving the instructor the option to choose those that are best suited for discussion Examples showcase a variety of problems with completely worked out solutions assisting students in working through the exercises The numerous exercises vary in difficulty from simple applications of formulas to more advanced project type problems Detailed hints accompany the more challenging problems Multi part exercises may be assigned to individual students to groups as projects or serve as further illustrations for the instructor Widely used graphics clarify both concrete and abstract concepts helping students visualize the proofs of many results Freely accessible solutions to every other odd exercise are posted to the book s Springer website Additional solutions for instructors use may be obtained by contacting the authors directly   *Solutions Manual for Complex Analysis and Applications* Jeffrey Alan,2005-07

   Forthcoming Books Rose Arny,2003-04   **Interpolation and Approximation with Splines and Fractals** Peter Robert Massopust,2010 This textbook is intended to supplement the classical theory of uni and multivariate splines and their approximation and interpolation properties with those of fractals fractal functions and fractal surfaces This synthesis will complement currently required courses dealing with these topics and expose the prospective reader to some new and deep relationships In addition to providing a classical introduction to the main issues involving approximation and interpolation with uni and multivariate splines cardinal and exponential splines and their connection to wavelets and multiscale analysis which comprises the first half of the book the second half will describe fractals fractal functions and fractal surfaces and their properties This also includes the new burgeoning theory of superfractals and superfractal functions The theory of splines is well established but the relationship to fractal functions is novel Throughout the book connections between these two apparently different areas will be exposed and presented In this way more options are given to the prospective reader who will encounter complex approximation and interpolation problems in real world modeling Numerous examples figures

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