

# 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  $\lim_{z \rightarrow n} \frac{z-n}{\sin \pi z}$  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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\*Department of Math., National Taiwan University. Email: d04221001@ntu.edu.tw

# Stein Complex Analysis Solutions

**Elias M. Stein, Rami Shakarchi**



## Stein Complex Analysis Solutions:

**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

*The Riemann Legacy* Krzysztof Maurin, 2013-04-17 very small domain environment affects through analytic continuation the whole of Riemann surface or analytic manifold Riemann was a master at applying this principle and also the first who noticed and emphasized that a meromorphic function is determined by its singularities Therefore he is rightly regarded as the father of the huge theory of singularities which is developing so quickly and whose importance also for physics can hardly be overestimated Amazing and mysterious for our cognition is the role of Euclidean space Even today many philosophers believe following Kant that real space is Euclidean and other spaces being abstract constructs of mathematicians should not be called spaces The thesis is no longer tenable the whole of physics testifies to that Nevertheless there is a grain of truth in the 3 prejudice E three dimensional Euclidean space is special in a particular way pleasantly familiar to us in it we also we mathematicians feel particularly confident and move with a sense of greater safety than in non Euclidean spaces For this reason perhaps Riemann space  $M$  stands out among the multitude of interesting geometries For it is 1 Locally Euclidean i.e.  $M$  is a differentiable manifold whose tangent spaces  $T_x M$  are equipped with Euclidean metric  $U_x$  2 Every submanifold  $M$  of Euclidean space  $E$  is equipped with Riemann natural metric inherited from the metric of  $E$  and it is well known how often such submanifolds are used in mechanics e.g. the spherical pendulum

**Partial Differential Equations II** Michael E. Taylor, 2010-11-02 This second in the series of three volumes builds upon the basic theory of linear PDE given in volume 1 and pursues more advanced topics Analytical tools introduced here include pseudodifferential operators the functional analysis of self adjoint operators and Wiener measure The book also develops basic differential geometrical concepts centred about curvature Topics covered include spectral theory of elliptic differential operators the theory of scattering of waves by obstacles index theory for Dirac operators and Brownian motion and diffusion

**Topics in Operator Theory** Joseph A. Ball, Vladimir Bolotnikov, J. William Helton, Leiba Rodman, Ilya M. Spitkovsky, 2011-02-03 This is the second volume of a collection of original and review articles on recent advances and new directions in a multifaceted and interconnected area of mathematics and its applications It encompasses many topics in theoretical developments in operator theory and its diverse applications in applied mathematics physics engineering and other disciplines The purpose is to bring in one volume many important original results of cutting edge

research as well as authoritative review of recent achievements challenges and future directions in the area of operator theory and its applications

**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

*Handbook of Conformal Mappings and Applications* Prem K. Kythe, 2019-03-04 The subject of conformal mappings is a major part of geometric function theory that gained prominence after the publication of the Riemann mapping theorem for every simply connected domain of the extended complex plane there is a univalent and meromorphic function that maps such a domain conformally onto the unit disk The *Handbook of Conformal Mappings and Applications* is a compendium of at least all known conformal maps to date with diagrams and description and all possible applications in different scientific disciplines such as fluid flows heat transfer acoustics electromagnetic fields as static fields in electricity and magnetism various mathematical models and methods including solutions of certain integral equations

[Air Force Research Resumés](#), 1961 *Summaries of Projects Completed in Fiscal Year ...* National Science Foundation (U.S.), 1977

**Summaries of Projects Completed in Fiscal Year ...**, 1977 *Journal of the Mathematical Society of Japan* Nihon Sūgakkai, 2001 *Journal of mathematics of Kyoto University* Kyōto Daigaku, 1961 *Proceedings of Symposia in Pure Mathematics*, 1979

**Wallerstein Laboratories Communications on the Science and Practice of Brewing** Wallerstein Laboratories, 1937 *The Journal of Geometric Analysis*, 1997 *The Abel Prize 2008-2012* Helge Holden, Ragni Piene, 2014-01-21 Covering the years 2008 2012 this book profiles the life and work of recent winners of the Abel Prize John G Thompson and Jacques Tits 2008 Mikhail Gromov 2009

John T Tate Jr 2010 John W Milnor 2011 Endre Szemer di 2012 The profiles feature autobiographical information as well as a description of each mathematician s work In addition each profile contains a complete bibliography a curriculum vitae as well as photos old and new As an added feature interviews with the Laureates are presented on an accompanying web site [http extras.springer.com](http://extras.springer.com) The book also presents a history of the Abel Prize written by the historian Kim Helsvig and includes a facsimile of a letter from Niels Henrik Abel which is transcribed translated into English and placed into historical perspective by Christian Skau This book follows on *The Abel Prize 2003 2007 The First Five Years* Springer 2010 which profiles the work of the first Abel Prize winners

**Lecture Notes in Pure and Applied Mathematics** ,1990 Mathematics of the USSR ,1977 International Symposium in Memory of Hua Loo Keng Sheng Gong,1991 **Annals of Mathematics Studies** ,1981 **Journal of the Chemical Society** ,1893

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