

# 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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**Lingjun Ying**



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## **Table of Contents Stein And Shakarchi Complex Analysis Solutions**

1. Understanding the eBook Stein And Shakarchi Complex Analysis Solutions
  - The Rise of Digital Reading Stein And Shakarchi Complex Analysis Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Stein And Shakarchi Complex Analysis Solutions
  - 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 Stein And Shakarchi Complex Analysis Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Stein And Shakarchi Complex Analysis Solutions

- Personalized Recommendations
  - Stein And Shakarchi Complex Analysis Solutions User Reviews and Ratings
  - Stein And Shakarchi Complex Analysis Solutions and Bestseller Lists
5. Accessing Stein And Shakarchi Complex Analysis Solutions Free and Paid eBooks
    - Stein And Shakarchi Complex Analysis Solutions Public Domain eBooks
    - Stein And Shakarchi Complex Analysis Solutions eBook Subscription Services
    - Stein And Shakarchi Complex Analysis Solutions Budget-Friendly Options
  6. Navigating Stein And Shakarchi Complex Analysis Solutions eBook Formats
    - ePub, PDF, MOBI, and More
    - Stein And Shakarchi Complex Analysis Solutions Compatibility with Devices
    - Stein And Shakarchi Complex Analysis Solutions Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Stein And Shakarchi Complex Analysis Solutions
    - Highlighting and Note-Taking Stein And Shakarchi Complex Analysis Solutions
    - Interactive Elements Stein And Shakarchi Complex Analysis Solutions
  8. Staying Engaged with Stein And Shakarchi Complex Analysis Solutions
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Stein And Shakarchi Complex Analysis Solutions
  9. Balancing eBooks and Physical Books Stein And Shakarchi Complex Analysis Solutions
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Stein And Shakarchi Complex Analysis Solutions
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Stein And Shakarchi Complex Analysis Solutions
    - Setting Reading Goals Stein And Shakarchi Complex Analysis Solutions
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Stein And Shakarchi Complex Analysis Solutions

- Fact-Checking eBook Content of Stein And Shakarchi Complex Analysis Solutions
  - 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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