

Complex Analysis, Stein and Shakarchi

Chapter 3 Meromorphic Functions and the Logarithm

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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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Table of Contents Stein Complex Analysis Solutions

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

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

- Fact-Checking eBook Content of Stein 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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