

Complex Analysis Notes
Math 213a — Harvard University
C. McMullen

1 Basic complex analysis; the simply-connected Riemann surfaces

1. Background in real analysis and basic differential topology (such as covering spaces and differential forms) is a prerequisite.
2. Relations of complex analysis to other fields include: algebraic geometry, complex manifolds, several complex variables, Lie groups and homogeneous spaces $(\mathbb{C}, \mathbb{H}, \hat{\mathbb{C}})$, geometry (Platonic solids; hyperbolic geometry in dimensions two and three), Teichmüller theory, elliptic curves and algebraic number theory, $\zeta(s)$ and prime numbers, dynamics (iterated rational maps).
3. Algebraic origins of complex analysis; solving cubic equations $x^3 + ax + b = 0$ by Tschirnhaus transformation to make $a = 0$. This is done by introducing a new variable $y = cx^2 + d$ such that $\sum y_i = \sum y_i^2 = 0$; even when a and b are real, it may be necessary to choose c complex (the discriminant of the equation for c is $27b^2 + 4a^3$.) It is negative when the cubic has only one real root; this can be checked by looking at the product of the values of the cubic at its max and min.
4. Elements of complex analysis: $\mathbb{C} = \mathbb{R}[i]$, $\mathbb{T}$ (and related examples for $\mathbb{Q}[\sqrt{2}]$). Geometry of multiplication: why is it conformal? (Because $|ab| = |a||b|$, so triangles are mapped to similar triangles!) Visualizing $e^z = \lim(1 + z/n)^n$. A pie slice centered at $-n$ and with angle π/n is mapped to the upper semi-circle; in the limit we find $\exp(\pi i) = -1$.
5. Definition: $f(z)$ is analytic if $f'(z)$ exists. Note: we do not require continuity of f' ! Cauchy's theorem: $\int_\gamma f(z)dz = 0$. Plausibility: $\int_\gamma z^n dz = \int_a^b \gamma(t)^n \gamma'(t)dt = \int_a^b (\gamma(t)^{n+1})/(n+1)'dt = 0$.

Proof 1: $f(z)dz$ is a closed form, when f is holomorphic, assuming $f(z)$ is smooth. Discussion: f is holomorphic iff $idf/dx = df/dy$; from

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Table of Contents Solution Manual Of Basic Complex Analysis

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

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

- Fact-Checking eBook Content of Solution Manual Of Basic Complex Analysis
- 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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