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Chapter 1. Preliminaries to Complex Analysis 1 1 Complex numbers and the complex plane 1 1.1 Basic properties 1 1.2 Convergence 5 1.3 Sets in the complex plane 5 2 Functions on the complex plane 8 2.1 Continuous functions 8 2.2 Holomorphic functions 8 2.3 Power series 14 3 Integration along curves 18 4 Exercises 24 Chapter 2.

Complex Analysis (Princeton Lectures in Analysis, Volume II)

Author: Elias M. Stein, Rami Shakarchi. Publisher: Princeton University Press ISBN: 1400831156 Page: 400 View: 5914

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MATH V3007 Complex Variables - Solution to HW4 Problem 1 (2.11 in Stein-Shakarchi) a) From the hint: $\int_0^{2\pi} \int_0^R f(Re^{i\theta}) iRe^{i\theta} d\theta R^2 i\theta Re^{-z}$ From Cauchy's integral formula: $\int_0^{2\pi} \int_0^R f(Re^{i\theta}) iRe^{i\theta} d\theta Re^{i\theta} - z$

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Textbook Complex Analysis by E. Stein and R. Shakarchi Other good books are: Ahlfors's Complex Analysis, and Conway's Functions of one complex variable.. Grading Your grade will be based on several homework assignments (30%), one Midterm (30%) and a Final exam (40%). The exams will most likely be in class.

Math 215A: Complex Analysis, Autumn 2011

Solution: Let $f(z) = f(x,y) = u(x,y) + iv(x,y)$, where $z = x+iy$. (a) Since $\text{Re}(f) = \text{constant}$, $\frac{\partial u}{\partial x} = 0$, $\frac{\partial u}{\partial y} = 0$. (1.6) By the Cauchy-Riemann equations, $\frac{\partial v}{\partial x} = -\frac{\partial u}{\partial y} = 0$. (1.7) Thus, in Ω , $f'(z) = \frac{\partial f}{\partial x} = \frac{\partial u}{\partial x} + i \frac{\partial v}{\partial x} = 0 + 0 = 0$. (1.8) Thus $f(z)$ is constant. (b) Since $\text{Im}(f) = \text{constant}$, $\frac{\partial v}{\partial x} = 0$, $\frac{\partial v}{\partial y} = 0$.

Math 372: Solutions to Homework - Williams College

textbook Complex Analysis by E. M. Stein and R. Shakarchi (Princeton University Press, 2003). ... it can be found that the solutions to the cubic equation $z^3 + 6z^2 + 9z + 3 = 0$ are $z \dots$ part of complex analysis that studies certain special functions known

Complex Analysis Lecture Notes - UC Davis Mathematics

Solution. Quiz 2 held on Monday September 18. Solution. Quiz 3 held on Monday September 25. Solution. Quiz 4 held on Monday October 2. Solution. Quiz 5 held on Wednesday October 11. Solution. Quiz 6 held on Monday October 16. Solution. Quiz 7 held on Monday October 23. Solution. Quiz 8 held on Monday October 30. Solution. Quiz 9 held on Monday ...

Math 440/508 - Complex Analysis - Fall 2016

Textbook: Complex Analysis by Elias Stein and Rami Shakarchi Additional resources: Sets, logic, and mathematical language by George Bergman Complex Analysis by Theodore W. Gamelin Course notes . Syllabus: The official course description includes the following topics: analytic functions of a complex variable, Cauchy's integral theorem, power

Math 185 - Spring 2015

Complex Analysis: Problems with solutions. ... collection of problems for using as an additional learning resource for those who are taking an introductory course in complex analysis. The problems ...

(PDF) Complex Analysis: Problems with solutions

and the textbook is Complex Analysis by Stein and Shakarchi (ISBN13: 978-0-691-11385-2). Note to students: it's nice to include the statement of the problems, but I leave that up to you. I am only skimming the solutions. I will occasionally add some comments or mention alternate solutions. If

Math 302: Solutions to Homework - Williams College

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Shakarchi, Elias M. Stein: Problems and Solutions for Complex Analysis 0th Edition 0 Problems solved: Serge Lang, Rami Shakarchi, R Shakarchi: Problems and Solutions for Undergraduate Analysis 1st ...

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The following series of posts comprises our introduction to complex analysis as taught by Professor Rowan Killip at the University of California, Los Angeles, during the Fall quarter of 2009. Where necessary, course notes have been supplemented with details written by the authors of this website using assistance from Complex Analysis by Elias Stein and...

246A: Complex Analysis, Notes 1 - Analytic functions ...

COURSE DESCRIPTION. The course will be an introduction to complex analysis. The following topics will be covered: Holomorphic functions and the Cauchy-Riemann equations, Cauchy's theorem and Cauchy's integral formula, Taylor expansions, entire functions and Liouville's theorem, zeros of holomorphic functions, isolated singularities and Laurent expansions, meromorphic functions, the Residue ...

Ma 108c - California Institute of Technology

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