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## **Complex Analysis (Undergraduate Texts in Mathematics**

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Complex analysis, traditionally known as the theory of functions of a complex variable, is the branch of mathematical analysis that investigates functions of complex numbers.

## **Complex analysis - Wikipedia**

Math 55 is a two-semester long first-year undergraduate mathematics course at Harvard University, founded by Lynn Loomis and Shlomo Sternberg. The official titles of the course are Honors Abstract Algebra (Math 55a) and Honors Real and Complex Analysis (Math 55b). Previously, the official title was Honors Advanced Calculus and Linear Algebra

## **Math 55 - Wikipedia**

for those who are taking an introductory course in complex analysis. The problems are numbered and allocated in four chapters corresponding to different subject areas: Complex Numbers, Functions, Complex Integrals and Series. The majority of problems are provided with answers, detailed procedures and hints (sometimes incomplete solutions).

## **Complex Analysis: Problems with solutions**

This text is intended for undergraduate, students in mathematics, physics, and engineering. It is intended to balance between the pure and applied aspects of complex analysis and to present concepts in a clear writing style that is understandable to students at the junior or senior undergraduate level.

## **Complex Analysis for Mathematics and Engineering: Mathews ...**

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## **NPTEL :: Mathematics - Complex Analysis**

Complex Analysis for Mathematics and Engineering. This book presents a comprehensive, student-friendly introduction to

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Complex Analysis concepts. Its clear, concise writing style and numerous applications make the foundations of the subject matter easily accessible to students.

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for a certain complex number , although it was constructed by Escher purely using geometric intuition. See the paper [8] and this website, which has animated versions of Escher's lithograph brought to life using the mathematics of complex analysis. •Complex dynamics, e.g., the iconic Mandelbrot set. See Fig. 2.

## **Complex Analysis Lecture Notes - UC Davis Mathematics**

Complex Analysis Lecture Notes by Dan Romik. This note covers the following topics: The fundamental theorem of algebra, Analyticity, Power series, Contour integrals , Cauchy's theorem, Consequences of Cauchy's theorem, Zeros, poles, and the residue theorem, Meromorphic functions and the Riemann sphere, The argument principle, Applications of Rouché's theorem, Simply-connected regions and Cauchy's theorem, The logarithm function, The Euler gamma function, The Riemann zeta function, The prime ...

## **Mathematical Analysis Books / Complex Analysis Books**

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