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complex analysis is a beautiful tightly integrated subject it revolves around complex analytic functions these are functions that have a complex derivative unlike calculus using real variables the mere existence of a complex derivative has strong implications for the properties of the function 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 this course provides an introduction to complex analysis which is the theory of complex functions of a complex variable we will start by introducing the complex plane along with the algebra and geometry of complex numbers and then we will make our way via differentiation integration complex dynamics power series representation and laurent complex analysis with applications princeton university mat330 lecture notes jacobshapiro princeton edu created january 27 2023 last typeset may 14 2023 complex analysis is a beautiful tightly integrated subject it revolves around complex analytic functions these are functions that have a complex derivative unlike calculus using real variables the mere existence of a complex derivative has strong implications for the properties of the function complex analysis is a basic tool in many complex analysis is a branch of mathematics that involves functions of complex numbers it provides an extremely powerful tool with an unexpectedly large number of applications including in number theory applied mathematics physics hydrodynamics thermodynamics and electrical engineering 1 introduction why study complex analysis these notes are about complex analysis the area of mathematics that studies analytic functions of a complex variable and their properties in this book you will find examples problems and applets that allow you to explore complex analysis by using the visual interactive power of the computer or tablet taras mel nyk covers the fundamentals of complex analysis concise but thorough for a direct understanding of the subject contains diverse examples and exercises 5506 accesses about this book elementary aspects of complex analysis such as the cauchy integral theorem the residue theorem laurent series and the riemann mapping theorem with riemann surface the ory 1 preliminaries to complex analysis the complex numbers is a field \mathbb{C} that is complete with respect to the modulus norm $|z|$ every $z \in \mathbb{C}$ can be uniquely represented as $z = re^{i\theta}$ for $r \geq 0$ and $\theta \in [0, 2\pi)$ complex analysis is a nexus for many mathematical fields including 1 algebra theory of fields and equations 2 algebraic geometry and complex manifolds 3 geometry platonic solids at tori hyperbolic manifolds of dimensions two and three 4 lie groups discrete subgroups and homogeneous spaces $e.g. \mathbb{H}^2$ this text is designed for a first course in complex analysis for beginning graduate students or well prepared undergraduates whose background includes multivariable calculus linear algebra and advanced calculus complex functions let S be a set of complex numbers a function f defined on S is a rule that assigns to each z in S a complex number w the number w is called the value of f at z and is denoted by $f(z)$ that is $w = f(z)$ complex analysis lecture notes dmitri zaitsev contents 1 the

origin of complex numbers 4 1 1 solving quadratic equation 4 1 2 cubic equation and cardano s formula 4 1 3
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