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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. It is useful in many branches of mathematics, including algebraic geometry, number theory, analytic combinatorics, applied mathematics; as well as in physics, including the branches of hydrodynamics, thermodynamics, and ...

Complex analysis - Wikipedia

The geometric interpretation of a function of a complex variable as a mapping, or transformation, was introduced in Secs. 13 and 14 (Chap. 2). We saw there how the nature of such a function can be displayed graphically, to some extent, by the

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Preface The study of complex variables is beautiful from a purely mathematical point of view and provides a powerful tool for solving a wide array of problems

The study of complex variables is important for students in engineer

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value or magnitude of the complex number

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