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Real one-dimensional dynamics: real and complex methods Consider the complex plane partitioned into eight open regions using as boundaries the real axis, the imaginary axis and the unit circle.

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The geometry of real submanifolds in complex manifolds and the analysis of their mappings belong to the most advanced streams of contemporary Mathematics. In this area converge the techniques of various and sophisticated mathematical fields such as P.D.E.'s, boundary value problems, induced equations, analytic discs in symplectic spaces, complex dynamics.

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COMPLEX METHODS IN REAL INTEGRAL GEOMETRY Proof. This is a formal non-characteristic Cauchy problem for a complex vector field and is proved inductively by power series calculation. More generally, the Cauchy-Kovalevski theorem, usually stated in the real-analytic category, is true on the level

COMPLEX METHODS IN REAL INTEGRAL GEOMETRY Michael Eastwood

In this paper, we are concerned with a rigidity problem for holomorphic maps between balls in complex spaces of different dimensions. Write B_n and B_m for the unit balls in \mathbb{C}^n and \mathbb{C}^m , respectively.

Real Methods in Complex Dynamics | Request PDF

Since any complex number is specified by two real numbers one can visualize them by plotting a point with coordinates (a,b) in the plane for a complex number $a+bi$. The plane in which one plot these complex numbers is called the Complex plane, or Argand plane. $z = a + bi$ $a = \text{Re}(z)$ $b = \text{Im}(z)$ $r = |z| = \sqrt{a^2 + b^2}$ $\theta = \arg z = \arctan \frac{b}{a}$ Figure 1. A complex number.

Complex Numbers and the Complex Exponential

1 The exponential of any complex number. The definition of e^{x+iy} is given by the formula $e^{x+iy} = e^x e^{iy}$ (8) Each term on the right-hand side of (8) already has a well defined meaning. It is left as an exercise to show that $\frac{d}{dt} e^{(a+bi)t} = (a+bi)e^{(a+bi)t}$ (9) for any complex constant $a+bi$. Exercises 1. Let $z_1 = 3i$ and $z_2 = 2 - 2i$. (a) Plot the points $z_1 + z_2$; $z_1 - z_2$, and z_2 .

THE COMPLEX EXPONENTIAL FUNCTION

Lecture Notes for Complex Analysis Frank Neubrander Fall 2003 ... of complex numbers: real solutions of real problems can be determined by computations in the complex domain. See also: T. Needham, Visual Complex Analysis [1997] and J. Stillwell, Mathematics and Its History [1989].

Lecture Notes for Complex Analysis

Complex numbers can be defined as ordered pairs (x, y) of real numbers that are to be interpreted as points in the complex plane, with rectangular coordinates x and y , just as real numbers x are thought of as points on the real line.

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