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1. Contents. Preface vü
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1.2 Conjugate,
Modulus, and
Argument 5 2

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2.

FUNCTIONS OF TWO

REAL TIME SCALE

VARIABLES

Let T_1 and

T_2 be time scales. Let

us set $T_1 \times T_2 = f(x; y) :$

$x \in T_1; y \in T_2$.

The set T

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Complex numbers can be represented in two ways: a Cartesian and a polar form. The phase of a complex number is the angle φ used in the polar form. Complex functions are difficult to visualize...

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A complex function is a function from complex numbers to complex

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numbers. In other words, it is a function that has a subset of the complex numbers as a domain and the complex numbers as a codomain. Complex functions are generally supposed to have a domain that contains a nonempty open subset of the complex plane.

Complex analysis - Wikipedia

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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 series into territories at the edge of what is known

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arguments and complex outputs. The main goal of this module is to familiarize ourselves with such functions.

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the complex exponential function to simplify trigonometry is a compelling aspect of elementary complex analysis and geometry.

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example, Picard's
theorems, Riemann
mapping theorem,
Runge's theorem in the
first few chapters.

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...

\mathbb{C} coincides with the
plane \mathbb{R}^2 when viewed
as a set of ordered
pairs of real numbers.
Therefore, we can use
polar coordinates as an
alternate way to

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CHAPTER 2 COMPLEX

FUNCTIONS 1

Introduction to the

Concept of Analytic

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Polynomials 1.4

Rational Functions 2

Elementary Theory of

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COMPLEX ANALYSIS

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The algebra of complex numbers: the geometry of the complex plane, the spherical representation: Ahlfors, pp. 1-11 and 19-20 :

L2: Exponential function and logarithm for a complex argument: the complex exponential and trigonometric functions, dealing with the complex logarithm : L3

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