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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;

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as well as in physics, including the branches of hydrodynamics, thermodynamics, and particularly quantum mechanics. By extension, use of complex analysis also has applications in engineering

## **Complex analysis - Wikipedia**

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of a complex variable.

Written in a classical style, it is in the spirit of the books by Ahlfors and by Saks and Zygmund. Being designed for a one-semester course, it is much shorter than many of the standard texts.

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interval  $[a, b]$  is said to be differentiable at the point  $t_0$  of  $[a, b]$  if  $\operatorname{Re} \phi$  and  $\operatorname{Im} \phi$  are both differentiable at  $t_0$ ; we then define the derivative of  $\phi$  at  $t_0$  by  $\phi'(t_0) = (\operatorname{Re} \phi)'(t_0) + i(\operatorname{Im} \phi)'(t_0)$ .

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A function is complex differentiable if it is complex differentiable at every point where it is

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dened. For such a function  $f(z)$ , the derivative defines a new function which we write as  $f'(z)$  or  $\frac{d}{dz} f(z)$ . For example, a constant function  $f(z) = C$  is everywhere complex differentiable and its derivative  $f'(z) = 0$ .

## **2 Complex Functions and the Cauchy-Riemann Equations**

It is very important in the branch of calculus known as Complex

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Function theory, where geometric methods play an important role. We mention that the line through two distinct points  $P_1 = (x_1, y_1)$  and  $P_2 = (x_2, y_2)$  has the form  $z = (1 - t)z_1 + tz_2$ ,  $t \in \mathbb{R}$ , where  $z = x + iy$  is any point on the line and  $z_i = x_i + iy_i$ ,  $i = 1, 2$ .

### **COMPLEX NUMBERS - Number Theory**

Complex function theory is a remarkably

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beautiful piece of pure mathematics, and at the same time an indispensable tool in number theory and in many fields of applied mathematics and mathematical methods. Of central interest are mappings of the complex plane into itself which are differentiable.

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A brief introduction to Complex Functions, including basics and holomorphicity, as well as comparisons to real functions. Full Complex Variables Playlist: ht...

## **Introduction to Complex Functions - YouTube**

The fifth chapter is devoted to understanding Riemann's revolutionary visions.

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Whereas Cauchy started with integrals, Riemann's complex function theory began (in his 1851 dissertation) with the definition of complex differentiability and its natural consequence, what are today called the Cauchy-Riemann equations.

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$\Omega$  } are two open connected sets in the complex plane, and

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applications, plus the  
Riemann mapping  
theorem.

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Written in a classical  
style, it is in the spirit  
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