

## Function Theory Of One Complex Variable Solutions

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Textbook The required textbook is Function Theory of One Complex Variable by Robert E. Greene and Steven G. Krantz, Wiley, 1997. We will cover parts of chapters 6-12. Another useful reference is Real and Complex Analysis, by Rudin.

### Math 618-600 -- Theory of Functions of One Complex ...

Title: "Function Theory of One Complex Variable" Authors: Robert E. Greene and Steven G. Krantz Publisher: American Mathematical Society Edition: 3rd Additional material will be taken from other sources such as books or papers. Prerequisite and Description: Math 6321 is an introduction to graduate complex analysis.

### Function Theory of One Complex Variable

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A complex polynomial can be written as  $f(x,y) = u(x,y) + iv(x,y)$ , where u and v are of the form  $P(x,y) + im(x,y)$ . Definition 1.7. Let  $U \subset \mathbb{R}^2$  be open. A continuous function  $f: U \rightarrow \mathbb{C}$  (or continuously differentiable) on  $U$  if  $f = u + iv$  and  $f$  is differentiable on  $U$ . In this case we write  $f \in C^1(U)$ .

### Functions of One Complex Variable - Calvín University

FUNCTION THEORY OF ONE COMPLEX VARIABLE ROBERT E. GREENE University of California, Los Angeles STEVEN G. KRANTZ Washington University in St. Louis A Wiley-Interscience Publication JOHN WILEY & SONS, INC. New York • Chichester • Weinheim • Brisbane • Singapore • Toronto

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function theory can omit, the reader will find here - RITT's theorem on asymptotic power series expansions, which provides a function-theoretic interpretation of the famous theorem of E. BOREL to the effect that any sequence of complex numbers is the sequence of derivatives at 0 of some infinitely differentiable function on the line.

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### Several complex variables - Wikipedia

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