

Complex Variables Silverman



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then generalize to one in complex variables. Other times we will begin with a problem in complex variables and reduce it to one in real variables. Both methods—generalization and specialization—are worthy of careful consideration. We expect “complex” numbers to be difficult to comprehend and “imaginary” units to be shrouded in mystery.

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demystify complex variables, and then use this newly acquired understanding of complex variables to master some of the elements of advanced calculus. We will also compare, whenever possible, the analytic and geometric character of a concept. This naturally leads us to a discussion of “rigor”. The

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Complex analysis. As a differentiable function of a complex variable is equal to the sum of its Taylor series (that is, it is analytic), complex analysis is particularly concerned with analytic functions of a complex variable (that is, holomorphic functions).

Complex analysis - Wikipedia

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Herb Silverman is a mild-mannered mathematics professor and liberal, Jewish, Yankee atheist who ran for Governor of South Carolina to change the Constitution, which prohibited atheists from holding public office. A most original and humorous voice.

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The authors explore these relationships by adopting both generalization and specialization methods to move from real variables to complex variables, and vice versa, while simultaneously examining their analytic and geometric characteristics, using geometry to illustrate analytic concepts and employing analysis to unravel geometric notions.

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