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The problems are numbered and allocated in four chapters corresponding to different subject areas: Complex Numbers, Functions, Complex Integrals and Series.

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Chapter 3. Complex variables 59 Figure 3.8 Complex functions and their power series There is a whole calculus of complex functions of a complex variable which generalizes the usual calculus of functions of a real variable. This chapter =().

Chapter 3 Complex variables - UCB Mathematics

ography of other books on complex variables, many of which are more advanced, is provided in Appendix 1. A table of conformal transformations that are useful in applications appears in Appendix 2. x. ... It contains solutions of selected exercises in Chapters 1 through 7, covering the material through residues.

Complex Variables and Applications - math.unice.fr

COMPLEX ANALYSIS: SOLUTIONS 5 3 For the triple pole at $z = 0$ we have $f(z) = \frac{1}{z^3} \left(\frac{1}{z} + O(z) \right)$ so the residue is $\frac{1}{2} = \frac{1}{2}$. Finally, the function $f(z) = \frac{1}{z^m(1-z)^n}$ has a pole of order m at $z = 0$ and a pole of order n at $z = 1$.

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The pages that follow contain "official" solutions to problems appearing on the comprehensive exams in analysis given by the Mathematics Department at the University of Hawaii over the period from 1991 to 2007. I have done my best to ensure that the solutions are clear and correct, and that the level of rigor is at least as high as that

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