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Complex analysis problems and solutions pdf

This book contains all the exercises and solutions of Serge Lang's Complex Analysis, chapters I through VIII of Lang's book contain the material of an introductory course at the undergraduate level and the reader finds exercises in all fol lowing topics; power series, Cauchy's theorem, Laurent series, singularities and meromorphic functions, the calculus of residues, conforming mappings and har monic functions. Chapters IX by XVI, which are suitable for a more advanced course at the level of graduates, offer exercises in the following topics; Schwarz re flection, analytical continuation, Jensen's formula, the theorem of Phragmen-Lindelöf, whole functions, Weierstrass products and meromorphic functions, the Gamma function and the Zeta function. This solutions manual offers a large number of elaborate exercises of varying difficulty. I thank Serge Lang for learning complex analysis with so much enthusiasm and passion, and for giving me the chance to work on this answer book. Without his patience and help, this project would be far from complete. I thank my brother Karim for always being an infinite source of inspiration and wisdom. Finally, I would like to thank Mark McKee for his help with some issues and Jennifer Baltzell for many years of support, friendship and complicity. Rami Shakarchi Princeton, New Jersey 1999 Content Preface vii I Complex Numbers and Features 11 1 Definition 1.1 2 Polar form 1.3 1.3 Complex related features. 8 1. 4 limits and compact sets. 9 1. 6 The Cauchy-Riemann Equations. Cauchy's integral formula Complex analysis Jensen's formula Meromorphic function calculus differential comparison gamma function logarithm maximum Page 2 Instant download Readable on all devices Own it forever Local sales tax included if applicable Cauchy's integral formula Meromorphic function calculus differential equation gamma function logarithm maximum Page 2 Instant download Readable on all devices Own it forever Local sales tax included if apply Cauchy's integral formula Meromorphic function calculus differential equation gamma function logarithm maximum Page 2 Instant download Readable on all devices Own it forever Local sales tax included if applicable Cauchy's integral formula Topics Home The older book is "not" one of my favorites in terms of complex analysis. Putting that aside, the author offers accurate solutions (as far as I can tell so far), but it seems like he's reluctant to think like a complex analyst. By that I mean that he often gives inefficient answers by parameterizing complex functions in their real and complex parts when he doesn't have to. (I remember the section on fractional linear transformations as a particularly good example of this.) On other Looks like he's using his own knowledge instead of what's in the book. (I think I remember him finding rays of convergence by finding the distance from the center to the nearest singularity or branch point which I don't think was presented in the section of problems came from.) Anyway, solid choice. You should try to do the problems yourself first, then ask a professor or classmate, and only then you should consult this manual. PAGE 1 PAGE 2 2

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