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Real And Complex Analysis Solutions

Problems and Solutions in
REAL AND COMPLEX ANALYSIS

William J. DeMoo
July 9, 2010

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Abstract

The pages that follow contain "official" solutions to problems appearing on the comprehensive exams in analysis given by the Mathematics Department of the University of Melbourne 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 expected of students taking the Ph.D. exams. In solving many of these problems, I benefited enormously from the wisdom and guidance of professors Tom Blaney and Wayne Smith. Of course, some typos and mathematical errors surely remain, for which I am solely responsible. Nevertheless, I hope this document will be of some use to you as you prepare to take the comprehensive exams. Please email comments, suggestions, and corrections to wj11.1@unimelb.edu.au.

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