SERIES

and

DIFFERENTIAL EQUATIONS

Solutions Manual

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Preface

This book is a companion volume to the second edition of the textbook *Series and Differential Equations*, ISBN 978-960-90941-9-1, that covers the IBO syllabus for one of the optional topics in the IBO program for Mathematics at Higher Level.

This book contains full solutions to all the end-of-chapter problems in the textbook. The student is well advised to attempt to solve the problems on his/her own and consult this book only as a last resort.

There is no better preparation for this examination than constant practice with problems at a level of difficulty at least equal to that of the examination itself. For this reason a few of the problems presented here may be somewhat more challenging than the level of the IB examination but the student is well advised to attempt them. The examination on this topic can present the student with unusual questions and so the only way to prepare for it is by solving as many different and varied problems as possible.

I have followed the IBO's list of symbols and conventions with the notable exception that in this book the open interval, i.e. values of *x* such that $a < x < b$, is denoted by (a,b) and not by the IBO's $]a,b[$ simply because it is simpler to write and is the standard in most countries except, possibly, France.

This book is not connected with the IBO in any way nor does it constitute an official guide to the IBO syllabus.

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