

Contents

Preface	v
1 Theory and Examples	1
1 Definition of Trigonometric Functions	1
2 Trigonometric Identities	11
3 Further Properties, Substitutions and Inverse Functions	27
4 A Key Limit, Power Series and Complex Numbers	35
5 Inequalities	45
6 Trigonometry and Geometry	51
7 Appendix: Complements from Real and Complex Analysis . . .	65
2 Introductory Problems	83
3 Advanced Problems	91
4 Solutions to Introductory Problems	99
5 Solutions to Advanced Problems	139
Bibliography	197
Other Books from XYZ Press	199