

Contents

Preface	v
I Theory and Examples	1
1 Theory and Examples	3
1.1 Trigonometric functions in right triangles	3
1.2 Trigonometric functions on the unit circle	5
1.3 Calculus of the trigonometric functions	12
1.4 Trigonometric functions and complex numbers	13
1.5 Inverse trigonometric functions	17
1.6 The Law of Sines	18
1.7 The Law of Cosines	20
1.8 Ceva's Theorem	21
1.9 Menelaus's Theorem	22
1.10 Examples	23
II Problems	51
2 Introductory Problems	53
3 Advanced Problems	63
III Solutions	75
4 Introductory Problems	77
5 Advanced Problems	125
Other Books from XYZ Press	197