Contents

Preface v

Abbreviations and Notation vii

1 Advanced Topics in Geometry 1
   Overview of Basic Techniques .............................. 1
   Homothety .................................................... 12
   Exploring the Triangle ...................................... 24
   Spiral Similarity ............................................ 38
   Inversion ...................................................... 47

2 Introductory Problems 57

3 Advanced Problems 67

4 Solutions to Introductory Problems 77

5 Solutions to Advanced Problems 119

Further Reading 179

Other Books from XYZ Press 185

Index 187