

CONTENTS

PART II

Section.	Subject.	Theorems.	PAGE
	Introduction.—Nature of formal geometry		220
1.	Angles at a point. <i>Exercise 23.</i>	1, 2, 3	222
2.	Congruent triangles and exterior angles. <i>Exercise 24.</i>	4, 5	226
3.	Parallels. <i>Exercise 25.</i>	6-9	228
4.	Angles of a triangle and regular polygon <i>Exercise 26.</i>	10-12	230
5.	Triangles (Congruent and isosceles) <i>Exercise 27.</i>	13-17	238
6.	Inequalities. <i>Exercise 28.</i>	18-21	244
7.	Parallelograms. (intercepts on parallel straight lines) <i>Exercise 29.</i>	22-28	246
8.	Areas of parallelograms. Construction No. 16. <i>Exercise 30.</i>	29-32	250
9.	Right-angled triangles. <i>Exercise 31.</i>	33-34	260
10.	Extensions of Theorem of Pythagoras. <i>Exercise 32.</i>	35-36	266
11.	Chords of circles. <i>Exercise 33.</i>	37-39	270
12.	Angle properties of circles. <i>Exercise 34.</i>	40-47	276
13.	Tangents to a circle. Constructions Nos. 17-19. <i>Exercise 35.</i>	48-51	288
14.	Concurrences connected with a triangle. (Inscribed, circumscribed and escribed triangles) <i>Exercise 36.</i>	52-55	296

CONTENTS

Section.	Subject.	Theorems.	PAGE
15.	Ratio in Geometry. <i>Exercise 37.</i>	56-64	303
16.	Constructions Nos. 20-22. (Proportional division of straight lines)		322
<hr/>			
APPENDIX A. Geometrical representation of algebraical identities			326
APPENDIX B. Sections of cones and cylinders			328
<hr/>			
ANSWERS			330