CONTENTS

PREFACE	PAGI
AXIOMS	xi
CHAPTER I	
HOMOGRAPHY	1
THE AXIOMS OF INCIDENCE. PERSPECTIVITY AND PROJECTIVITY. DUALITY. THE THEOREMS OF PAPPUS AND DESARGUES.	
EXAMPLES 1 CHAPTER II	
THE HARMONIC CONSTRUCTION	11
HARMONIC CONJUGATES. INVOLUTIONS. SELF-CORRESPONDING POINTS.	
EXAMPLES 2	
CHAPTER III	
THE CONIC	27
DESARGUES' THEOREM ON CONICS. DUAL OF A CONIC. PASCAL'S AND BRIANCHON'S THEOREM. POLE AND POLAR. SELF-POLAR TRIADS. RECIPROCATION. PORISMS. RELATED RANGES ON A CONIC.	
examples 3	
CHAPTER IV	
AMICABLE INVOLUTIONS	60
COMMUTATIVE INVOLUTIONS. INVOLUTIONS IN HARMONY.	
EXAMPLES 4	
CHAPTER V	
THE FUNDAMENTAL INVOLUTION PARALLELISM AND PERPENDICULARITY. CIRCLE, PARABOLA AND RECTANGULAR HYPERBOLA.	7 0
EXAMPLES 5	

CHAPTER VI	
COMPLEX GEOMETRY	PAGI
THE ELEVEN-POINT CONIC. HESSE'S THEOREM.	
examples 6	
CHAPTER VII	
THE CIRCULAR POINTS	94
EXAMPLES 7	
CHAPTER VIII	
THE COMMON POINTS OF TWO CONICS . THE HARMONIC LOCUS AND THE HARMONIC ENVELOPE.	108
EXAMPLES 8	
CHAPTER IX	
THE REDUCTION OF A CHAIN OF PERSPECTIVITIES	113
CHAPTER X	
GEOMETRY AS A BOARD GAME	117

SOLUTIONS TO EXAMPLES

. . 124