Contents

1 P	OINTS, LINES, PLANES, AND ANGLES	
Some 1–1 1–2	Basic Figures A Game and Some Geometry Points, Lines, and Planes	1 5
Defin:	itions and Postulates Segments, Rays, and Distance	11
1-3 1-4 1-5	Angles Postulates and Theorems Relating Points, Lines, and Planes	17 22
	Special Topics Challenge 9 Application/Locating Points 27	
	Reviews and Tests Self-Tests 10, 29 Algebra Review/Linear Equations 10 Chapter Summary 29 Chapter Review 30 Chapter Test 31	
2 D	DEDUCTIVE REASONING	
Using	Deductive Reasoning	
2-1	If-Then Statements; Converses	33
2–2 2–3	Properties from Algebra Proving Theorems	37 43
Theor	rems about Angles and Perpendicular Lines	
2–4 2–5 2–6	Special Pairs of Angles Perpendicular Lines Planning a Proof	50 56 60
	Technology Computer Key-In 48	
	Special Topics Career/ <i>Geologist</i> 36 Biographical Note/ <i>Julia Morgan</i> 49 Application/ <i>Orienteering</i> 54 Möbius Bands 66	
	Reviews and Tests Mixed Review Exercises 37, 60 Self-Tests 49, 65 Chapter Summary 66 Chapter Review 67 Chapter Test 68 Algebra Review/Systems of Equations 69 Preparing for College Entrance Exams 70 Cumulative Review 71	