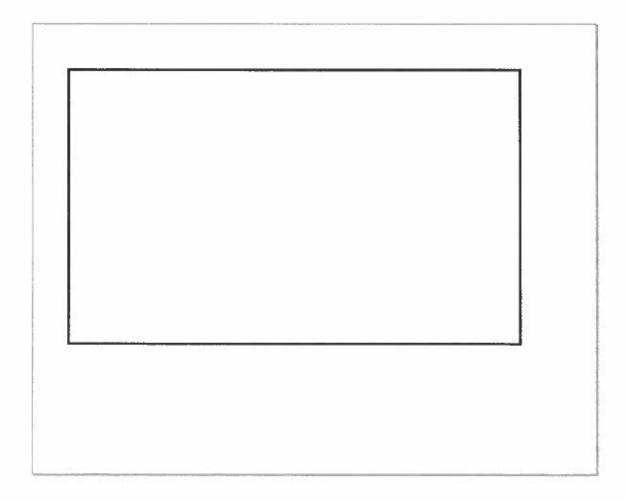
5-4 Special Parallelograms		
Name	Definition	Why a Parallelogram?
Rectangle	Quadrilateral with 4 right angles	
Rhombus	Quadrilateral with 4 congruent sides	
Square	Quadrilateral with 4 right angles <u>AND</u> 4 congruent sides	
	'	



It two consecutive sides of a para	allelogram are congruent, then the
parallelogram is a rhombus.	B , C
Given:	
Prove:	
Statements	Reasons A ——— D
	-
If a parallelogram is a rhombus, tl Given:	hen its diagonals are perpendicular.
Prove:	A
Statements	Reasons
*	
	•

If the diagonals of a parallelogram (are perpendicular, then it is a rhombus.
Given:	B
Prove:	A
Statements	Reasons
A parallelogram is a rhombus i	f and only if its diagonals are perpendicular.
Each diagonal of a rhombus b	isects two angles of a rhombus.
Given:	B
	/\/
Prove:	/E\/

Given:	
Prove:	E
Statements	Reasons
	W 0752 74

If an angle of a parallelogram is a right angle, then the parallelogram is a rectangle.	
Given:	B
Prove:	A
Statements	Reasons

If a parallelogram is a rectangle, then its diagonals are congruent.	
Given: Prove:	B
Statements	Reasons

If the diagonals of a parallelogram are congruent, then it is a rectangle.	
Given:	B
Prove:	A
Statements	Reasons
A parallelogram is a rectangle if and	d only if its diagonals are congruent.

The midpoint of the hypotenuse of a right	A
triangle is equidistant from the three verti	ces.
Given:	D
Prove:	В
Statements	Reasons
1 200	

Does a diagonal cut a parallelogram into two congruent triangles?

Assignment #43

Part I: Special Parallelograms Packet

Part II: p. 187-189 WE #1-19

[Table for #1-10, Reasons for #11-19]