H.Geometry - Chapter 5- Definition Sheet

	Section 5.6
Properties of Rhombuses:	
Definition of a rhombus	A parallelogram with <u>four congruent</u> sides.
	Belongs to: Kites parallelograms trapezoids
	(1) Because a rhombus is a :
	Kite : Diagonals are perpendicular (Kite diagonals thm.)
	parallelogram: Diagonals bisect each other. (parallelogram diagonals Theorem)
Rhombus Diagonal Theorem	The diagonals of a rhombus are perpendicular bisactors of each other
	Rois L bisactor of MH M
	MH is 1 bisector of RO
	(2) Because a rhombus is a :
	Kitc : Diagonal connecting the vertex angles is the angle bisector of the vertex
	angles (Kite angle bisector Thm.) and a rhombus has
	2 sets of vertex angles
Rhombus Angle Bisector Theorem.	The diagonals of a rhombus <u>DISECT</u> the angles of the rhombus
meorem.	RO bisects LR and LO
	MH bisects LM and LH R
	Question: What is true about the 4 triangles formed by the 2 diagonals of the rhombus? All triangles created are congruent

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Properties of Rectangles:	
Definition of rectangle	A parallelogram with four conquent angles (making each $\angle = 90^{\circ}$) Belongs to: parallelograms, Isosceles Trapezoids, +rapezoids (ms their properties)
	(1) Because a rectangle is a:
	of each other (parallel from diagonals Theorem Tsosceles Trapezoid: Diagonals are congruent. (Tsosceles Trapezoid diagonals Thm
Rectangle Diagonal Theorem	The diagonals of a rectangle are <u>Conquent</u> and <u>Niscot each other</u>

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Properties of Squares:	A
Properties of Squares.	S Contraction of the contract
Definition of Square	A quadrilateral that is equilateral and equiangular
	Belongs to: <u>all types of quadrilaterals</u> (1) Because a square is a:
	TSOSCEICS Trapezoid: Diagonals are congruent Rectangle (TSOSCEICS Trapezoid Diagonals Thm Kite / Rhombus : Diagonals are perpendicular (Kite diagonals Theorem Diagonals are bisectors of each other.
	parallelogram : Diagonals are bisectors of each other. Thombus rectangle (parallelogram diagonals Thm.
Square Diagonals Theorem	The diagonals of a square are conquent, perpendicular
	and bisect each other.