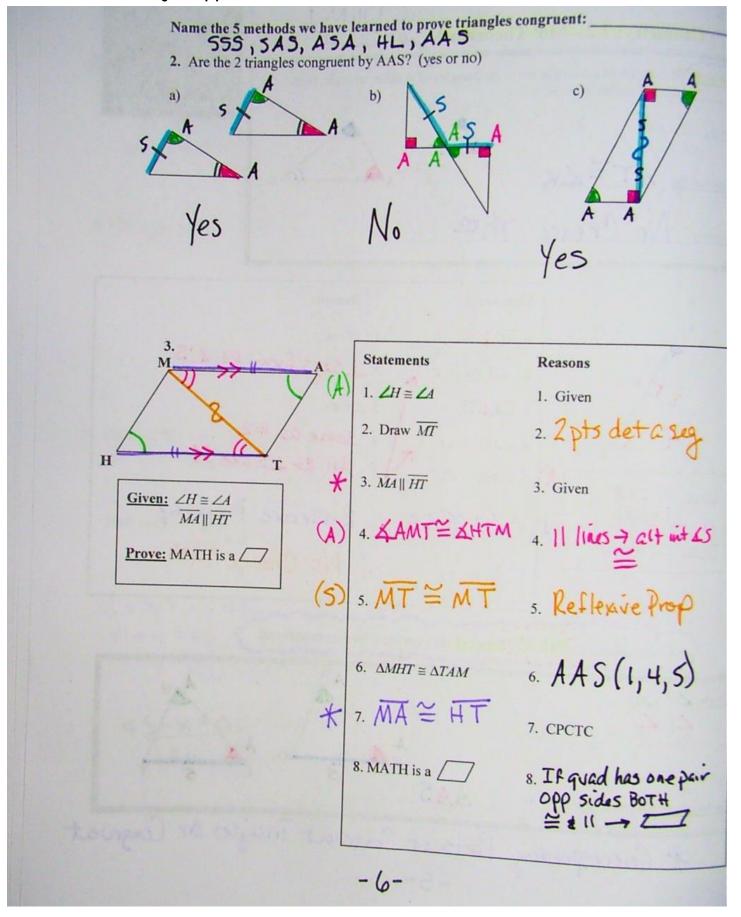
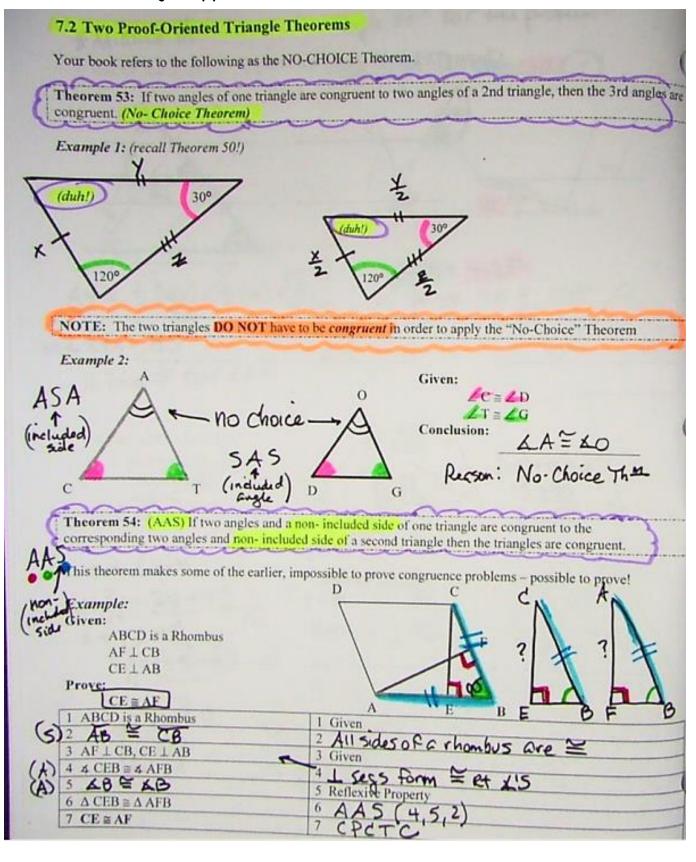


7.1 Notes: Triangle Application Theorems



7.1 Notes: Triangle Application Theorems



=.2 Two-Proof Oriented Triangle Theorems

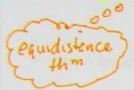
Geometry Examples

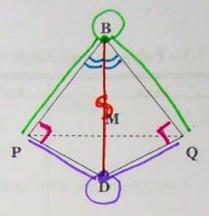
.ample 3: (Opener from pg 307 TE)

Given: Ray BD bisects &PBQ

 $\overline{PD} \perp \overline{PB}, \overline{QD} \perp \overline{QB}$

Prove: Line BD is the L bisector of PQ

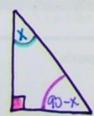




11	Statements	Reasons
1	BD bis & PBQ	1. Given
S	· ∠PBD ≅ XQBD (A)	2. A bis x is = into 2 = 4:5
3	PDIPB; QDIQB,	3. Given
4	* XBPD = XBQD (A)	4. I segs form = P+ L'S
	$\overrightarrow{BD} \cong \overrightarrow{BD}$ (5)	5. Reflexive Property
5	· △BPD = △BQD	6. AAS (2, 4,5)
7	DP = DQ (D)	7. CPCTC
3.	BP = BQ	8. CPCTC
3.	BD 1 bis PQ	9. If 2pts are = dist from endpts of sea Hey det
0	•	10. I bis of seg

xplain: If two right triangles have a pair of congruent acute angles, why must the other pair of acute

ingles also be congruent?



ou Do: Please read section 7.2, study sample problems, take notes and record/memorize any properties, heorems, etc. Assignment: 7.2 Assign: Pp 304 - 305 (1 - 10)