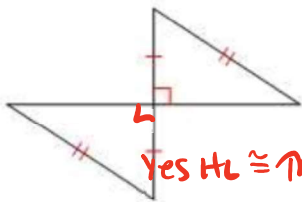
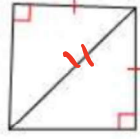
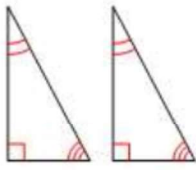
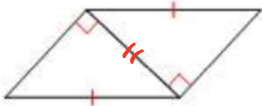
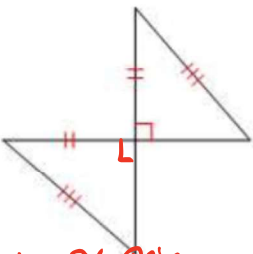
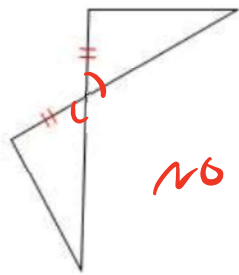


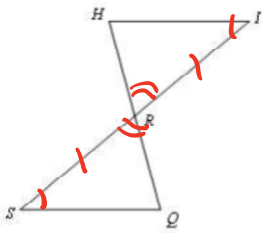
HL

Hw Section 4.4

State if the two triangles are congruent. If they are, state why.		
1. 	2. 	3. 
Yes HL $\cong$ Theorem	Yes HL $\cong$ Theorem	NO
4. 	5. 	6. 
Yes HL $\cong$ Theorem	Yes HL $\cong$ Theorem	NO

Mark the picture. Answer the question. Prove it.

7.  
 Given:  $R$  is the midpoint of  $\overline{SI}$   
 $\angle S \cong \angle I$   
 Prove:  $\angle Q \cong \angle H$



WHY ARE THE TWO TRIANGLES CONGRUENT? ASA

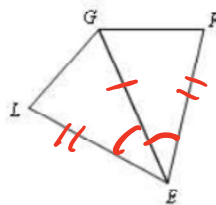
STATEMENTS	REASONS
$R$ is the midpoint of $\overline{SI}$ $\angle S \cong \angle I$	Given
$\overline{SR} \cong \overline{RI}$	Midpoint Theorem
$\angle HR I \cong \angle SRQ$	Vertical $\angle$ s Theorem
$\triangle SRQ \cong \triangle IRH$	ASA $\cong$ Postulate
$\angle Q \cong \angle H$	CPCTC

Mark the picture. Answer the question. Prove it.

8.

Given:  $\overline{GE}$  is the angle bisector of  $\angle LEF$   
 $\overline{LE} \cong \overline{FE}$

Prove:  $\overline{LG} \cong \overline{FG}$



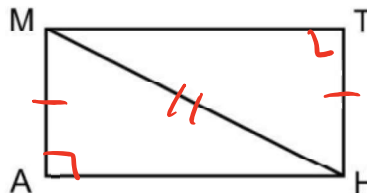
WHY ARE THE TWO TRIANGLES CONGRUENT? SAS

STATEMENTS	REASONS
$\overline{GE}$ is the angle bisector of $\angle LEF$ $\overline{LE} \cong \overline{FE}$	GIVEN
$\angle LEG \cong \angle FEG$	Def'n of angle bisector
$\overline{GE} \cong \overline{GE}$	Congruence of segments is Reflexive
$\triangle LEG \cong \triangle FEG$	SAS $\cong$ Postulate
$\overline{LG} \cong \overline{FG}$	CPCTC

9.

Given:  $\angle A$  and  $\angle T$  are right angles  
 $\overline{MA} \cong \overline{TH}$

Prove:  $\angle MHA \cong \angle HMT$



WHY ARE THE TWO TRIANGLES CONGRUENT? HL

STATEMENTS	REASONS
$\angle A$ and $\angle T$ are right angles $\overline{MA} \cong \overline{TH}$	Given
$\angle A \cong \angle T$	All right angles are congruent
$\overline{MH} \cong \overline{MH}$	Congruence of segments is reflexive
$\triangle MAH$ & $\triangle MTH$ are right $\Delta$ s	Def'n of right $\Delta$
$\triangle MAH \cong \triangle MTH$	HL Theorem
$\angle MHA \cong \angle HMT$	CPCTC