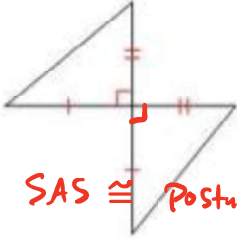
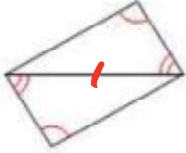
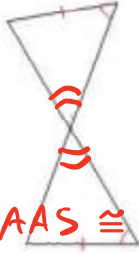
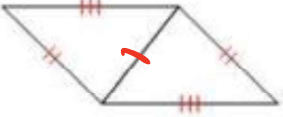
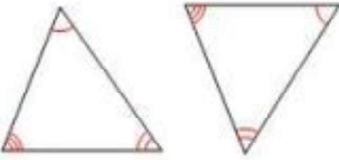
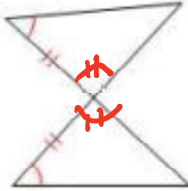
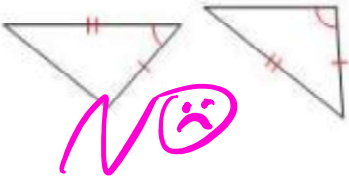
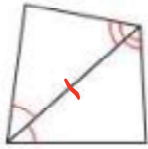
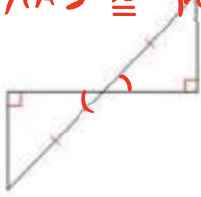
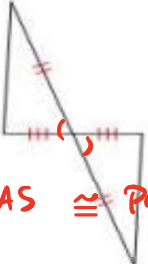
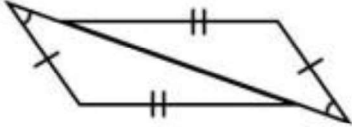
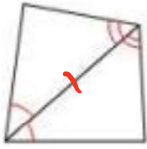
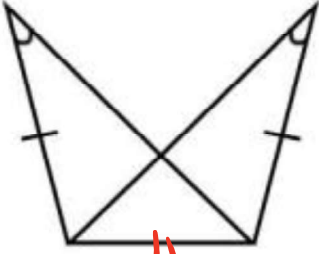
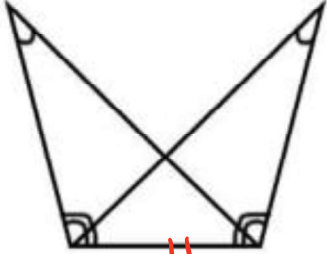
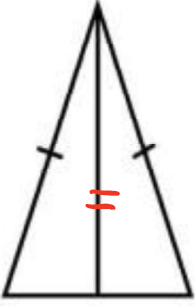


AAS and ASA

Hw Section 4.3

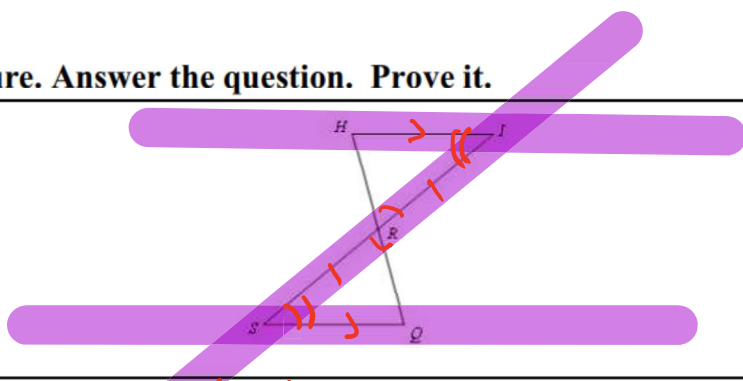
State if the two triangles are congruent. If they are, state why.		
1.  Yes SAS \cong Postulate	2.  Yes AAS \cong Postulate	3.  Yes AAS \cong Postulate
4.  Yes SSS \cong Postulate	5.  NO	6.  Yes ASA \cong Postulate
7.  NO	8.  Yes ASA \cong Postulate	9.  Yes AAS \cong Postulate
10.  Yes SAS \cong Postulate	11.  NO	12.  Yes ASA \cong Postulate
13.  NO	14.  Yes AAS \cong Postulate	15.  NO

Mark the picture. Answer the question. Prove it.

16.

Given: R is the midpoint of \overline{SI}
 $\overline{HI} \parallel \overline{SQ}$

Prove: $\triangle RQS \cong \triangle RHI$



WHY ARE THE TWO TRIANGLES CONGRUENT?

ASA or AAS

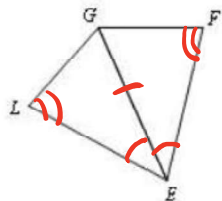
STATEMENTS	REASONS
R is the midpoint of \overline{SI} $\overline{HI} \parallel \overline{SQ}$	Given
$\overline{SR} \cong \overline{RI}$	Midpoint Theorem
$\angle HRI \cong \angle QRS$	vertical Angle Theorem
$\angle I \cong \angle S$	Alt. Int. \angle s Theorem
$\triangle RQS \cong \triangle RHI$	ASA \cong Postulate

Mark the picture. Answer the question. Prove it.

17.

Given: \overline{GE} is the angle bisector of $\angle LEF$
 $\angle L \cong \angle F$

Prove: $\triangle LEG \cong \triangle FEG$



WHY ARE THE TWO TRIANGLES CONGRUENT?

AAS

STATEMENTS	REASONS
\overline{GE} is the \angle bisector of $\angle LEF$ $\angle L \cong \angle F$	GIVEN
$\angle LEG \cong \angle FEG$	Def'n of \angle bisector
$\overline{GE} \cong \overline{GE}$	Congruence of segments is Reflexive (or Reflexive prop. of \cong)
$\triangle LEG \cong \triangle FEG$	AAS \cong Postulate