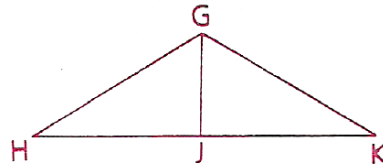


8.1 ~ HL Congruence Theorem

PROOFS MUST BE DONE ON PROOF PAPER.

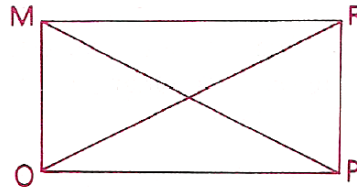
1. Given: \overline{GJ} is the altitude to \overline{HK}
 $\overline{HG} \cong \overline{KG}$

Prove: $\triangle HGJ \cong \triangle KGJ$



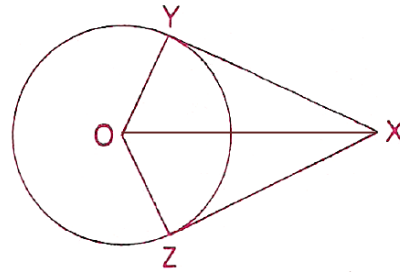
2. Given: $\overline{MO} \perp \overline{OP}$
 $\overline{RP} \perp \overline{OP}$
 $\overline{MP} \cong \overline{RO}$

Prove: $\triangle MOP \cong \triangle RPO$



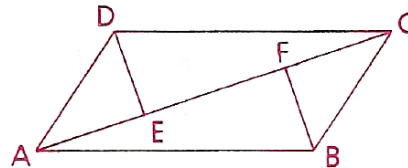
3. Given: $\overline{YO} \perp \overline{YX}$
 $\overline{ZO} \perp \overline{ZX}$
 $\overline{YO} \cong \overline{ZO}$

Prove: $\triangle YOX \cong \triangle ZOX$



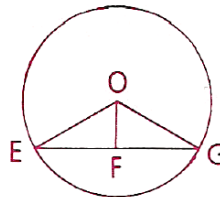
4. Given: $\overline{AE} \cong \overline{CF}$
 $\overline{AB} \cong \overline{CD}$
 $\angle BFA$ is a right \angle
 $\angle DEC$ is a right \angle

Prove: $\triangle CDE \cong \triangle ABF$



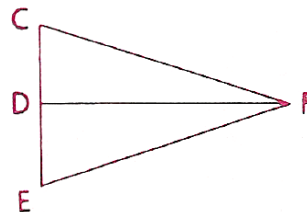
5. Given: $\overline{EO} \cong \overline{GO}$
 \overline{OF} is an altitude

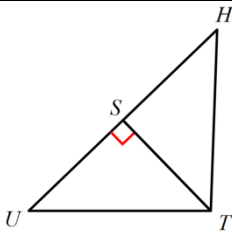
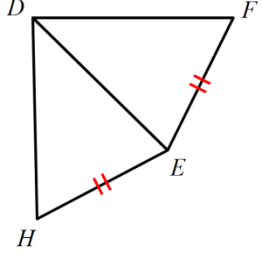
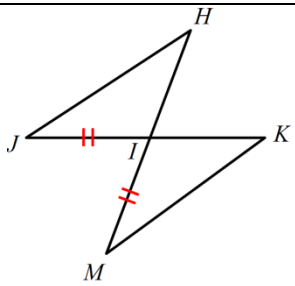
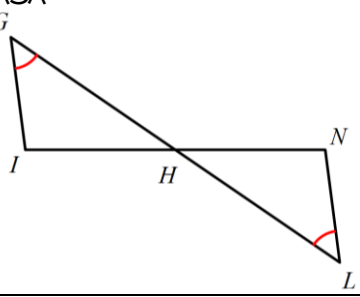
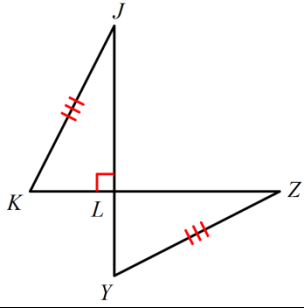
Prove: $\triangle FOE \cong \triangle FOG$



6. Given: \overline{FD} is an altitude
 \overline{FD} bisects $\angle CFE$

Prove: $\triangle CDF \cong \triangle EDF$



		WHAT I KNOW IS CONGRUENT	WHAT I NEED TO KNOW
7	HL 		
8	SAS 		
9	AAS 		
10	ASA 		
11	HL 		
12	AAS 