

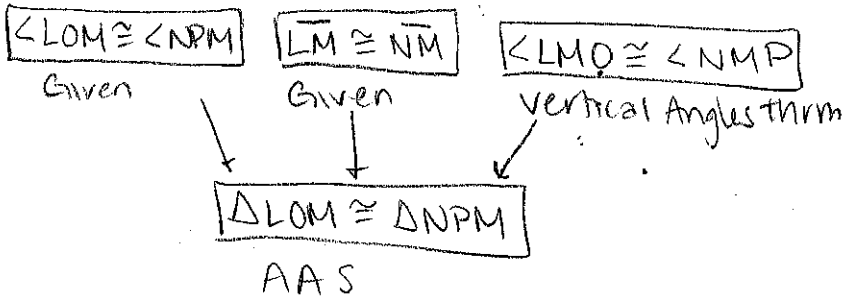
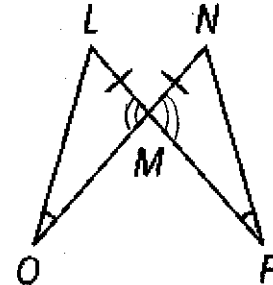
Name: Key
 Geometry

Date: _____
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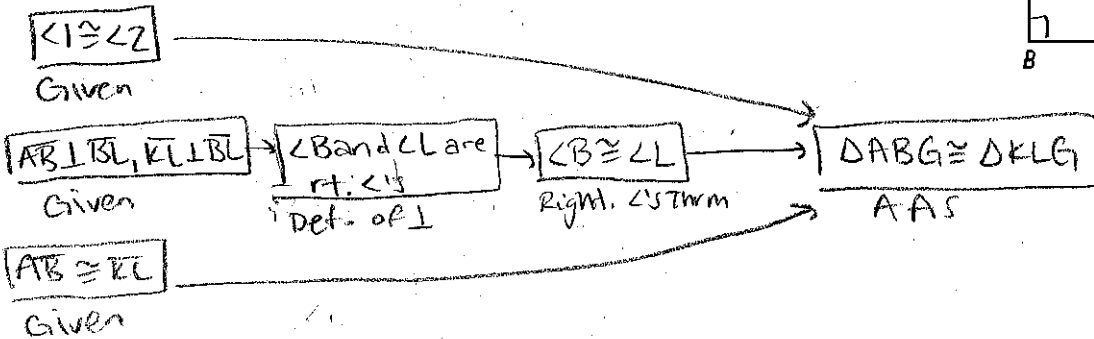
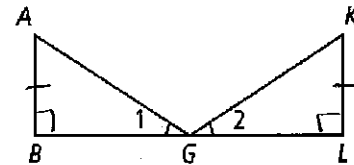
LT#3: Prove triangles two triangles congruent using the ASA Postulate and the AAS Theorem.

Write a two-column, paragraph, or flow chart proof.

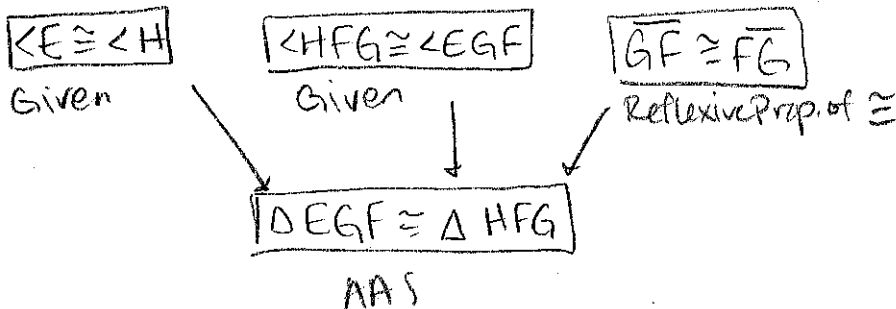
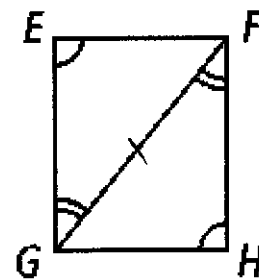
1. Given: $\angle LOM \cong \angle NPM$, $\overline{LM} \cong \overline{NM}$
 Prove: $\triangle LOM \cong \triangle NPM$



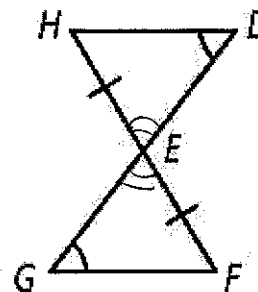
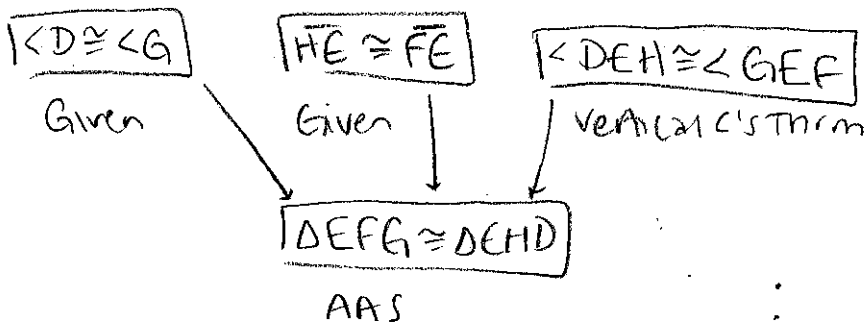
2. Given: $\angle 1 \cong \angle 2$, $\overline{AB} \perp \overline{BL}$, $\overline{KL} \perp \overline{BL}$, $\overline{AB} \cong \overline{KL}$
 Prove: $\triangle ABG \cong \triangle KLG$



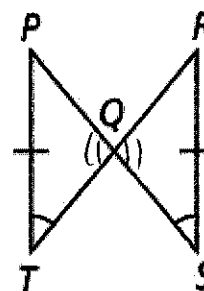
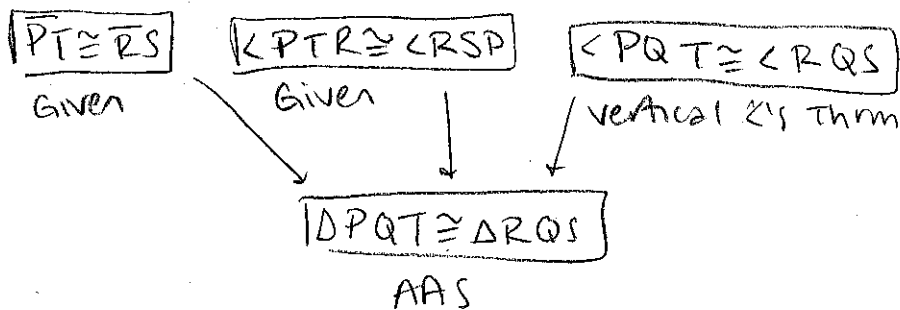
3. Given: $\angle E \cong \angle H$, $\angle HFG \cong \angle EGF$
 Prove: $\triangle EGF \cong \triangle HFG$



4. Given: $\angle D \cong \angle G, \overline{HE} \cong \overline{FE}$
 Prove: $\triangle EFG \cong \triangle EHD$



5. Given: $\overline{PT} \cong \overline{RS}, \angle PTR \cong \angle RSP$
 Prove: $\triangle PQT \cong \triangle RQS$



6. Given: \overline{BD} is the angle bisector of $\angle ABC$ and $\angle ADC$.
 Prove: $\triangle ABD \cong \triangle CBD$

