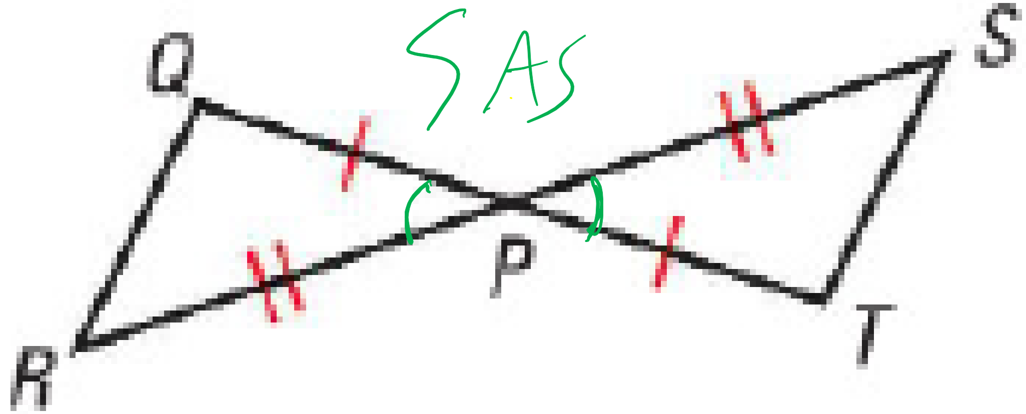
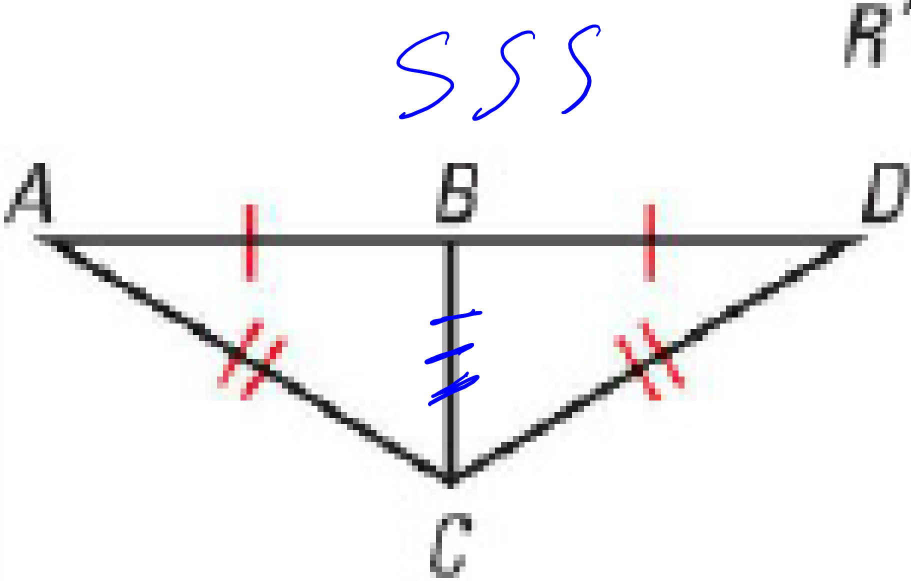
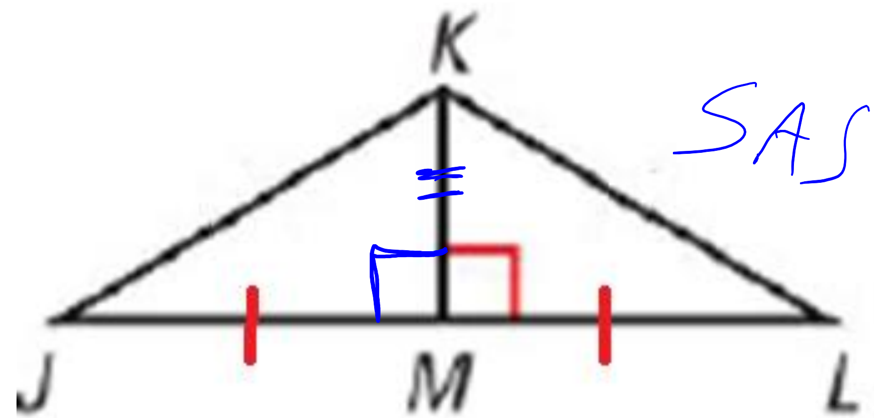
Determine if the following triangles are congruent and name the postulate used.

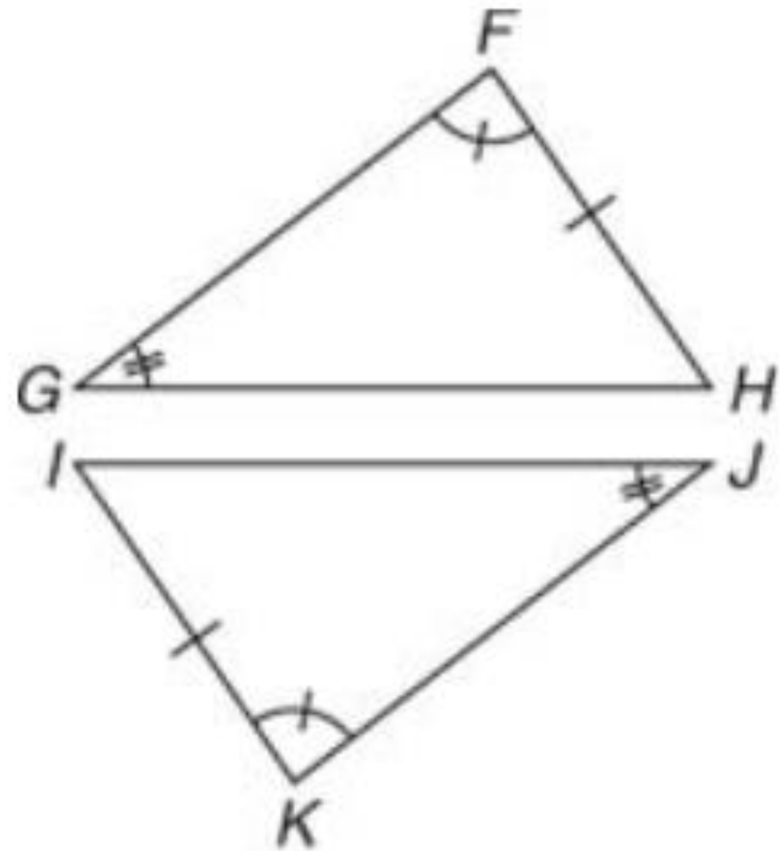






(AAS) Angle-Angle-Side Congruence Theorem

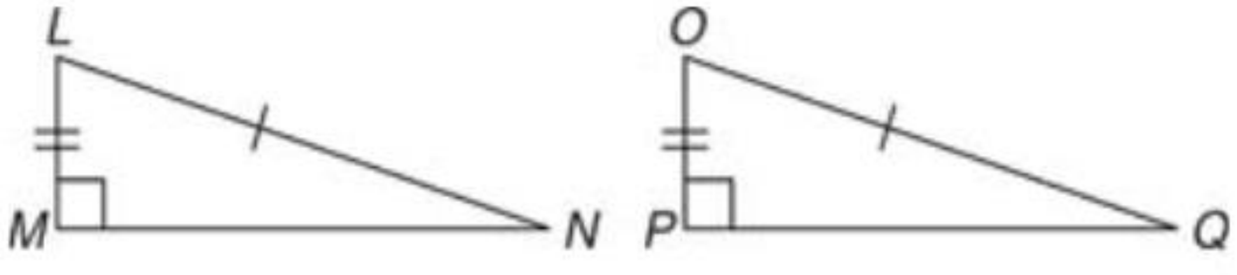
- If two angles and a non-included side of one triangle are congruent to two angles and the corresponding non-included side of a second triangle, then the triangles are congruent.



$\triangle FGH \cong \triangle KJI$ by AAS

(HL) *Hypotenuse - Leg ≅ Theorem*

- **If the hypotenuse and a leg of a right Δ are ≅ to the hypotenuse and a leg of a second Δ, then the 2 Δs are ≅.**

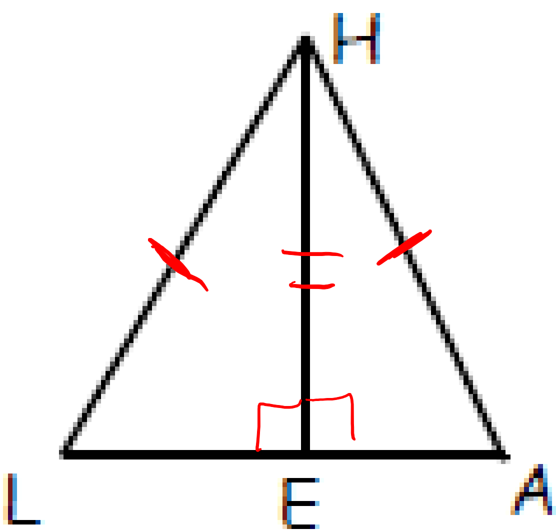


$\triangle LMN \cong \triangle OPQ$ by HL

The hypotenuse and one leg (HL) of the first right triangle are congruent to the corresponding parts of the second right triangle.

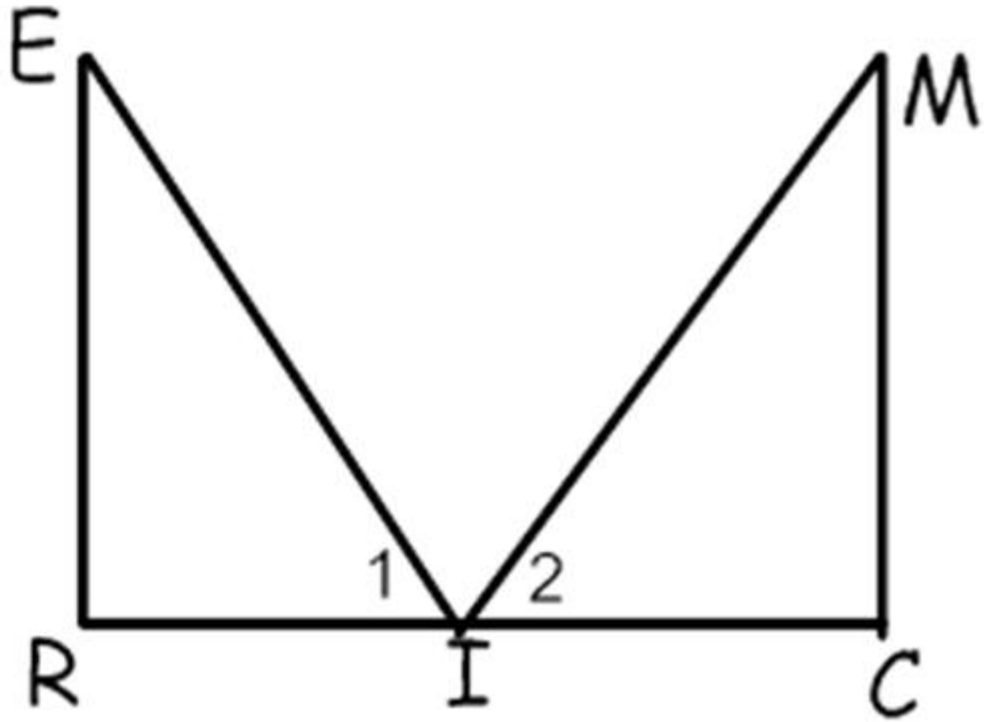
KAHOOT

Given that $\overline{HE} \perp \overline{LA}$ and $\overline{HL} \cong \overline{HA}$, prove the triangles are congruent.



$\overline{HE} \perp \overline{LA}$ $\overline{HL} \cong \overline{HA}$	Given
$\angle HEA$, $\angle HEL$ are right $\angle$'s	Def of $\perp$
$\triangle HEL$, $\triangle HEA$ right $\triangle$'s	def

Given $\angle 1 \cong \angle 2$, $\angle E \cong \angle M$ and I is the midpoint of $\overline{RC}$, prove the triangles are congruent.



Example :

Given: M is the midpoint of $\overline{XY}$.

Prove: $< A \cong < B$