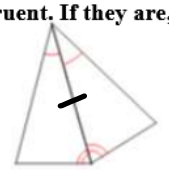
ACP Geometry
Proof Practice #3

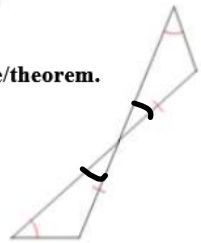
Name:_____

Determine whether the following triangles are congruent. If they are, state the postulate/theorem.

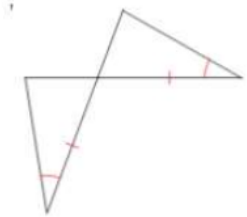
1. HL



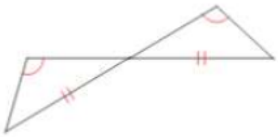
2. ASA



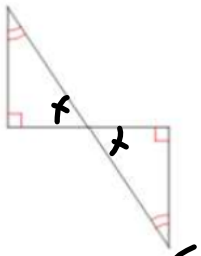
3. AAS



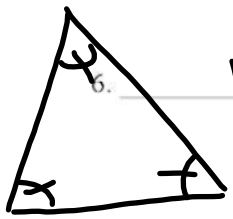
4. _____



5. _____

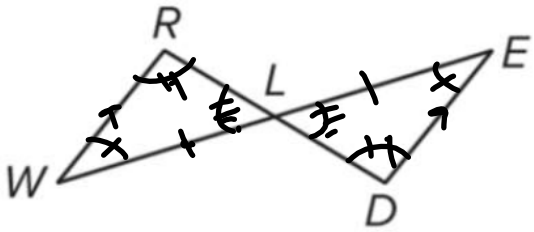


6. NOT



7. Write a two-column proof.
Given: L is the midpoint of $\overline{WE}$.
$\overline{WR} \parallel \overline{ED}$

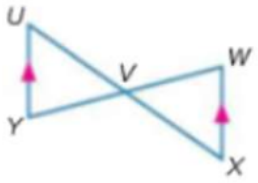
Prove: $\triangle WRL \cong \triangle EDL$



Statement	Reasons
	Given
$\overline{WL} \cong \overline{LE}$	Def of midpoint
$\angle W \cong \angle E$, $\angle R \cong \angle D$	AIA Thm
$\triangle WRL \cong \triangle EDL$	AAS

8. Given: V is the midpoint of $\overline{YW}$; $\overline{UY} \| \overline{XW}$

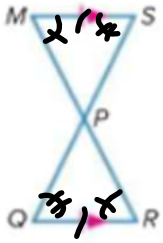
Prove: $\triangle UVY \cong \triangle XVW$



Statement	Reasons

9. Given: $\overline{MS} \cong \overline{RQ}$; $\overline{MS} \| \overline{RQ}$

Prove: $\triangle MSP \cong \triangle RQP$



Statement	Reasons
	Given
$\angle M \cong \angle R$, $\angle Q \cong \angle S$	AIA Thm.
$\triangle MSP \cong \triangle RQP$	ASA Post.