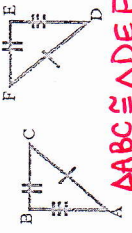
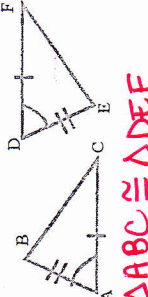
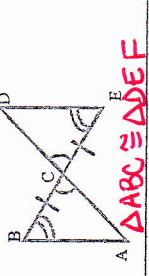
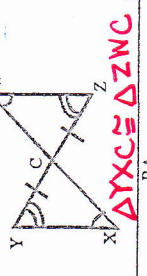
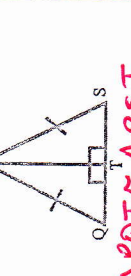
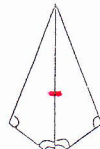
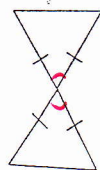
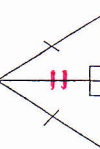

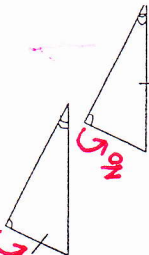


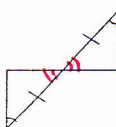
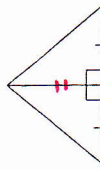
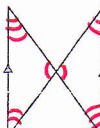



NOTES 5.3 - 5.6 A: Triangle Congruence Patterns

Objective: I can prove $\Delta s \cong$.
 You can show that two triangles are congruent, if any of the following criteria are met:

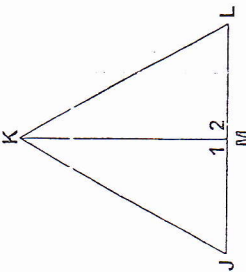
SSS	Side - Side - Side If all 3 pairs of corresponding sides are congruent, then the 2 triangles are congruent.	 $\Delta ABC \cong \Delta DEF$
SAS	Side - Angle - Side If 2 pairs of corresponding sides and the included angles are congruent, then the 2 triangles are congruent.	 $\Delta ABC \cong \Delta DEF$
ASA	Angle - Side - Angle If 2 pairs of corresponding angles and the included sides are congruent, then the 2 triangles are congruent.	 $\Delta ABC \cong \Delta DEF$
AAS	Angle - Angle - Side If 2 pairs of corresponding angles and a non-included side are congruent, then the 2 triangles are congruent.	 $\Delta YXC \cong \Delta ZNC$
HL	Hypotenuse - Leg If a corresponding hypotenuse and a corresponding leg of 2 right triangles are congruent, then the 2 triangles are congruent.	 $\Delta RQT \cong \Delta RST$

Name the postulate or theorem that would be used to prove the triangles congruent. You must use the marking shown. The only markings that can be added are shared sides or vertical angles.

-  **AAS**
-  **SAS**
-  **HL**
-  **HL**
-  **None**

-  **ASA**
-  **SAS**
-  **None**
-  **ASA**
-  **AAS**
-  **AAS**

Name the pair of sides or angles needed to prove the triangles congruent by the given method.

- $\Delta JKM \cong \Delta LKM$
- $\overline{JK} \cong \overline{LK}$; $\overline{JM} \cong \overline{LM}$ by SSS
 - $\angle J \cong \angle L$; $\overline{KM} \cong \overline{KM}$ by AAS
 - $\overline{JM} \cong \overline{ML}$; $\angle J \cong \angle L$; $\angle 1 \cong \angle 2$ by ASA
 - $\overline{JM} \cong \overline{ML}$; $\angle J \cong \angle L$; $\angle 1 \cong \angle 2$ by SAS
- 

- $\Delta OPQ \cong \Delta SRQ$
- $\overline{OQ} \cong \overline{QS}$; $\overline{OP} \cong \overline{SR}$; $\overline{PQ} \cong \overline{RQ}$ by SSS
 - $\overline{OQ} \cong \overline{QS}$; $\angle O \cong \angle S$; $\angle 1 \cong \angle 2$ by ASA
 - $\angle 1 \cong \angle 2$; $\overline{OQ} \cong \overline{SQ}$; $\overline{PQ} \cong \overline{RQ}$ by SAS
 - $\angle O \cong \angle S$; $\overline{PQ} \cong \overline{RQ}$; $\angle 1 \cong \angle 2$ by AAS
- 