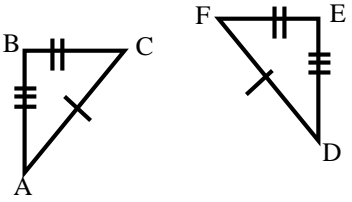
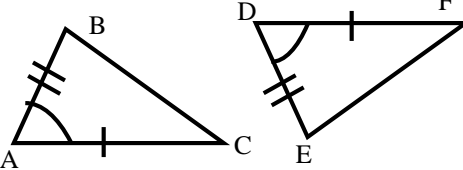
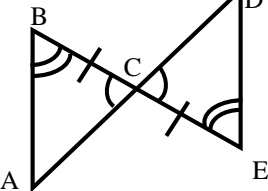
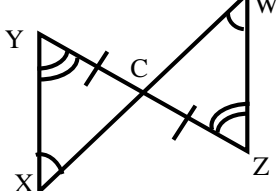
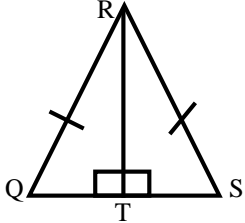


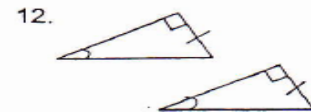
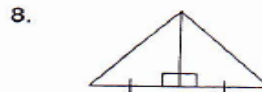
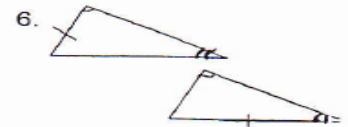
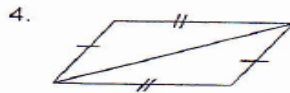
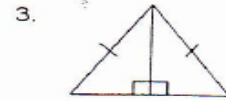
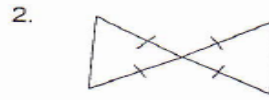
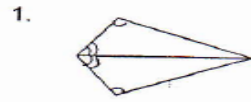
# NOTES 5.3 – 5.6 A: Triangle Congruence Patterns

Objective: \_\_\_\_\_

You can show that two triangles are congruent, if any of the following criteria are met:

<h2>SSS</h2>	<p>_____ - _____ - _____</p> <p>If all 3 pairs of corresponding sides are congruent, then the 2 triangles are congruent.</p>	
<h2>SAS</h2>	<p>_____ - _____ - _____</p> <p>If 2 pairs of corresponding sides and the included angles are congruent, then the 2 triangles are congruent.</p>	
<h2>ASA</h2>	<p>_____ - _____ - _____</p> <p>If 2 pairs of corresponding angles and the included sides are congruent, then the 2 triangles are congruent.</p>	
<h2>AAS</h2>	<p>_____ - _____ - _____</p> <p>If 2 pairs of corresponding angles and a non-included side are congruent, then the 2 triangles are congruent.</p>	
<h2>HL</h2>	<p>_____ - _____</p> <p>If a corresponding hypotenuse and a corresponding leg of 2 right triangles are congruent, then the 2 triangles are congruent.</p>	

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.



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

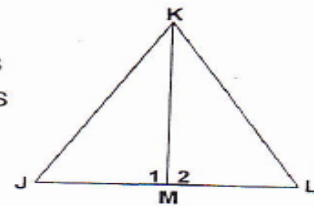
$$\triangle JKM \cong \triangle LKM$$

\_\_\_\_\_ 13.  $\overline{JK} \cong \overline{LK}$ ;  $\overline{JM} \cong \overline{LM}$  by SSS

\_\_\_\_\_ 14.  $\angle 1 \cong \angle 2$ ;  $\overline{KM} \cong \overline{KM}$  by AAS

\_\_\_\_\_ 15.  $\angle J \cong \angle L$ ;  $\angle 1 \cong \angle 2$  by ASA

\_\_\_\_\_ 16.  $\overline{JK} \cong \overline{LK}$ ;  $\angle J \cong \angle L$  by SAS



$$\triangle OPQ \cong \triangle SRQ$$

\_\_\_\_\_ 17.  $\overline{OP} \cong \overline{SR}$ ;  $\overline{PQ} \cong \overline{RQ}$  by SSS

\_\_\_\_\_ 18.  $\angle O \cong \angle S$ ;  $\angle 1 \cong \angle 2$  by ASA

\_\_\_\_\_ 19.  $\overline{OQ} \cong \overline{SQ}$ ;  $\overline{PQ} \cong \overline{RQ}$  by SAS

\_\_\_\_\_ 20.  $\overline{PQ} \cong \overline{RQ}$ ;  $\angle 1 \cong \angle 2$  by AAS

