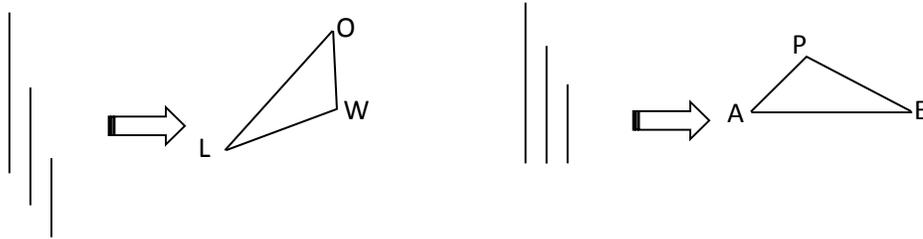


In the previous lesson, what did you have to show in order to verify that two triangles were congruent?

Observation: Suppose you have 3 sticks and I have 3 sticks that are congruent to yours. If we both make triangles out of our sticks, what is the observation?

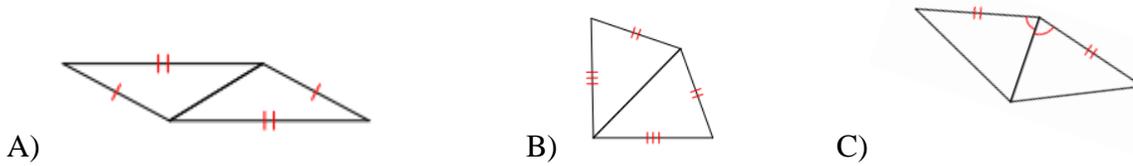


→ **Side-Side-Side Congruence Postulate** (*SSS \cong Postulate*)

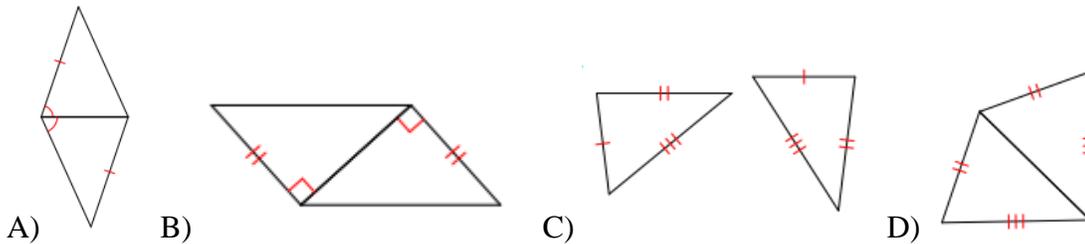
If the sides of one triangle are congruent to the sides of another triangle, then the triangles are congruent. Write 2 valid triangle congruency statements for the triangles above.

_____ \cong _____ or _____ \cong _____ because of _____

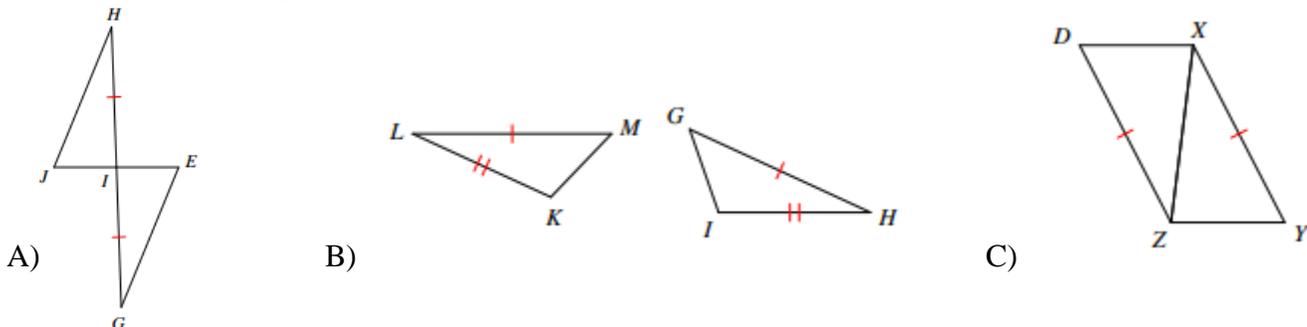
Example 1: Indicate whether the SSS postulate can be used to prove that these pairs of triangles are congruent.



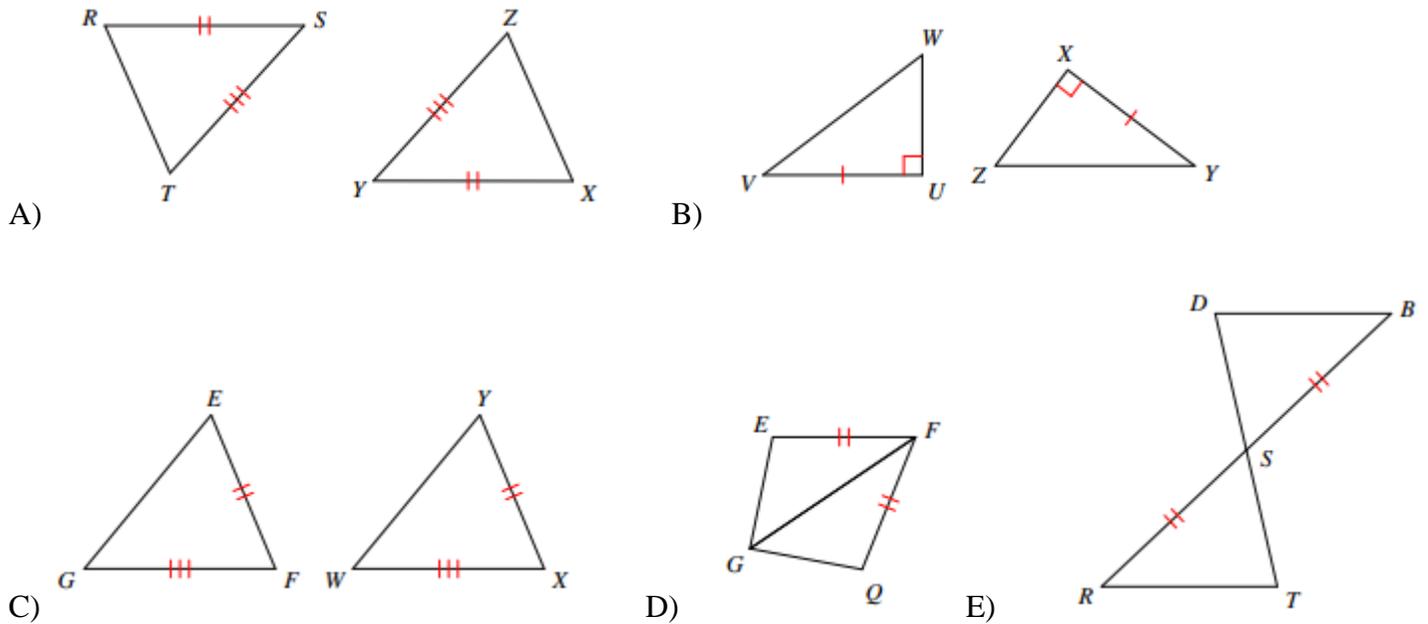
Practice 1: Indicate whether the SSS postulate can be used to prove that these pairs of triangles are congruent.



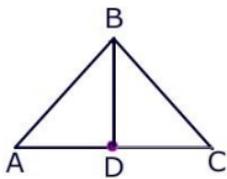
Example 2: State what additional information is required in order to know that the triangles are congruent by the SSS postulate.



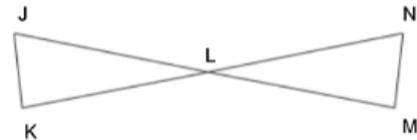
Practice 2: State what additional information is required in order to know that the triangles are congruent by the SSS postulate.



Example 3: Can you show that the two triangles given are congruent using the information given? If so, which reasons can you use?

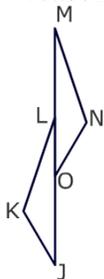


A) $\overline{AB} \cong \overline{BC}$, \overline{BD} is a median of side \overline{AC}

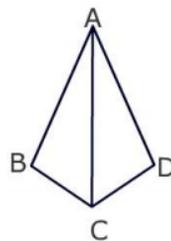


B) \overline{JM} bisects \overline{KN} , \overline{KN} bisects \overline{JM} , $\overline{JK} \cong \overline{NM}$

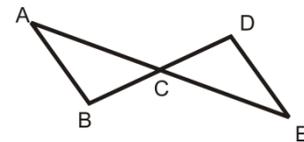
Practice 3: Can you show that the two triangles given are congruent using the information given? If so, which reasons can you use?



A) $\overline{MN} \cong \overline{KL}$, $\overline{ML} \cong \overline{OJ}$, $\overline{KJ} \cong \overline{ON}$



B) $\overline{BA} \cong \overline{AD}$, $\overline{BC} \cong \overline{CD}$



C) C bisects \overline{AE} and \overline{BD} , and $\overline{AB} \cong \overline{DE}$.