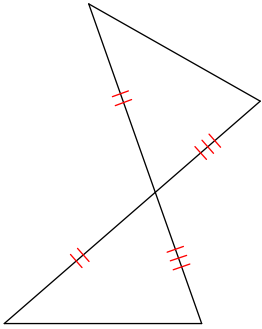


# Proving Triangles congruent

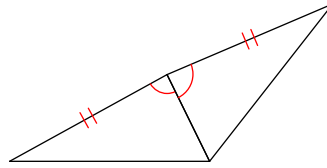
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**State if the two triangles are congruent. If they are, state how you know.**

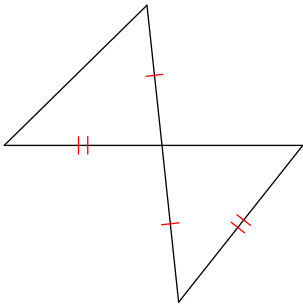
1)



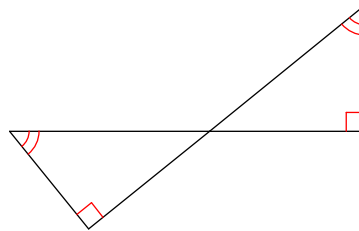
2)



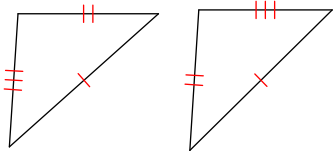
3)



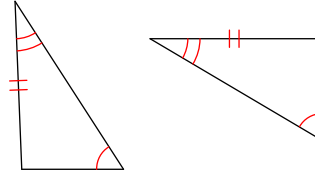
4)



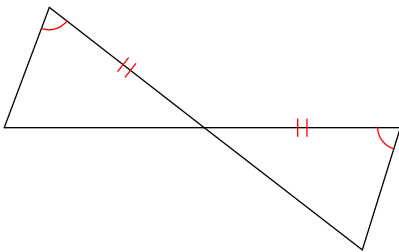
5)



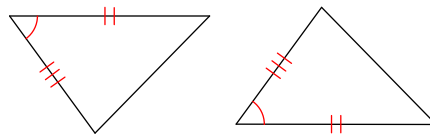
6)



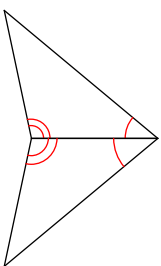
7)



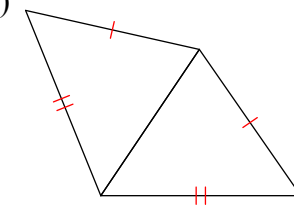
8)



9)

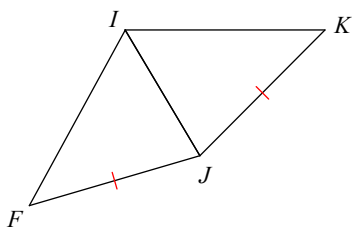


10)

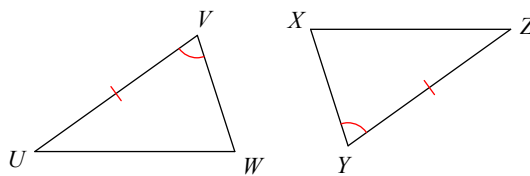


State what additional information is required in order to know that the triangles are congruent for the reason given.

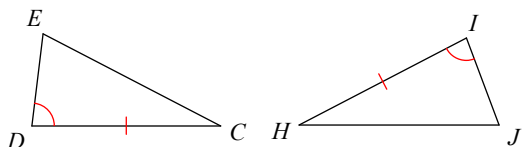
11) SAS



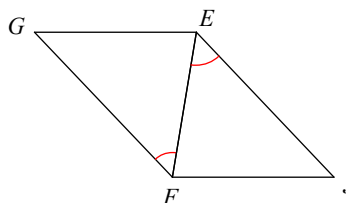
12) SAS



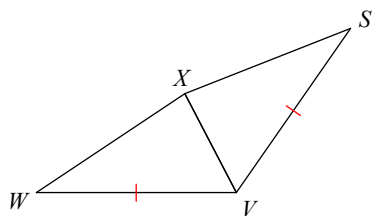
13) SAS



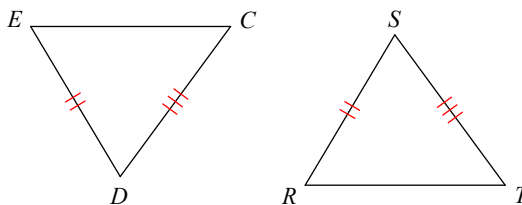
14) ASA



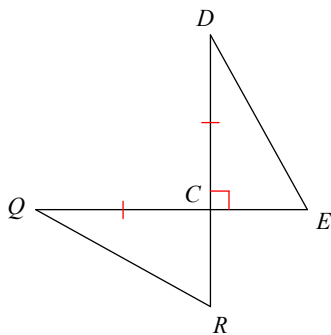
15) SSS



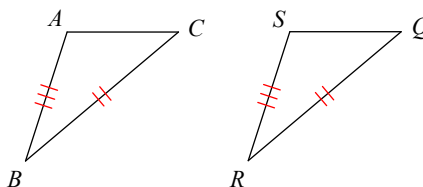
16) SSS



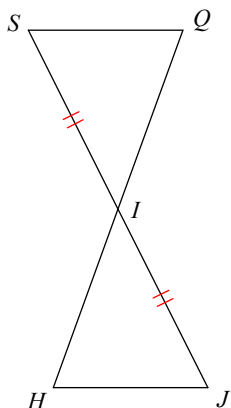
17) SAS



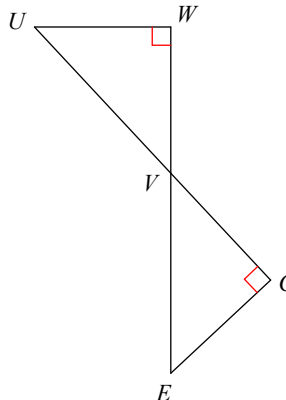
18) SSS



19) AAS



20) AAS

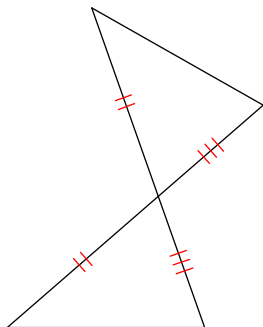


# Proving Triangles congruent

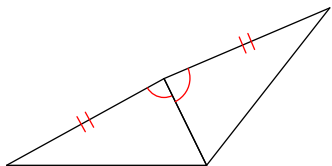
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**State if the two triangles are congruent. If they are, state how you know.**

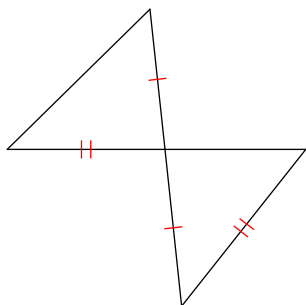
1) **SAS**



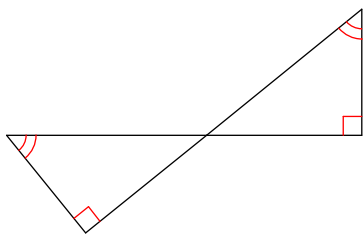
2) **SAS**



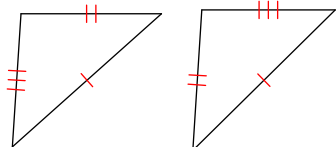
3) **Not congruent**



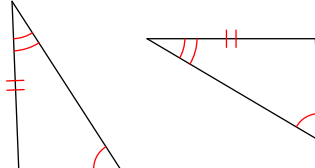
4) **Not congruent**



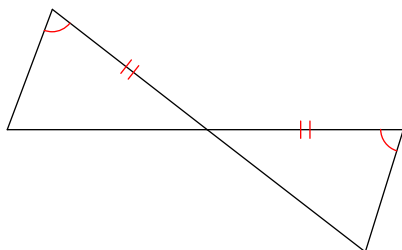
5) **SSS**



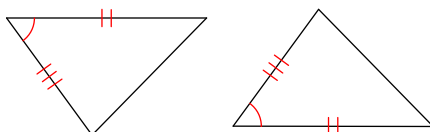
6) **AAS**



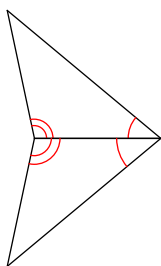
7) **ASA**



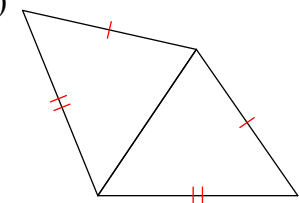
8) **SAS**



9) **ASA**



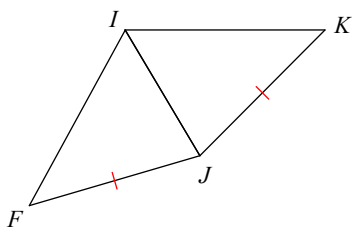
10) **SSS**



State what additional information is required in order to know that the triangles are congruent for the reason given.

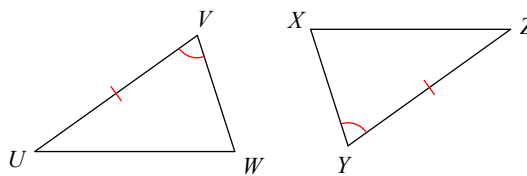
11) SAS

$$\angle KJI \cong \angle FJI$$



12) SAS

$$\overline{VW} \cong \overline{YX}$$

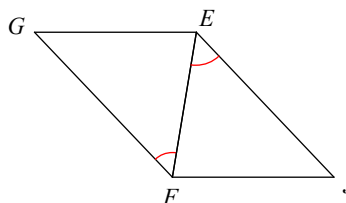
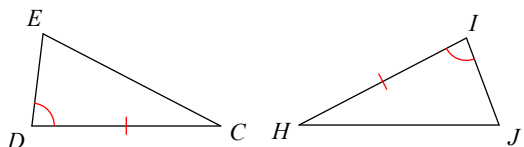


13) SAS

$$\overline{DE} \cong \overline{IJ}$$

14) ASA

$$\angle GEF \cong \angle JFE$$

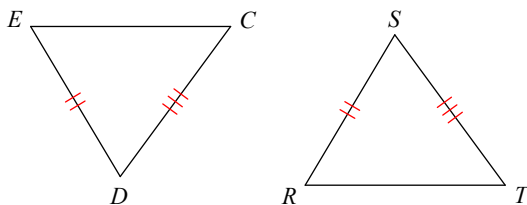
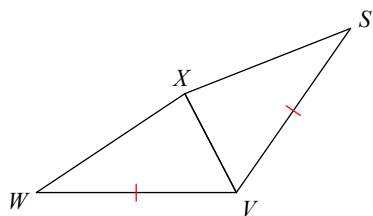


15) SSS

$$\overline{WX} \cong \overline{SX}$$

16) SSS

$$\overline{CE} \cong \overline{TR}$$

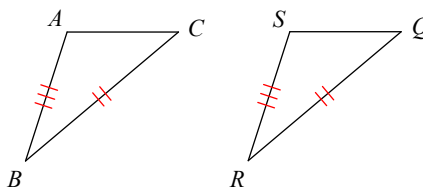
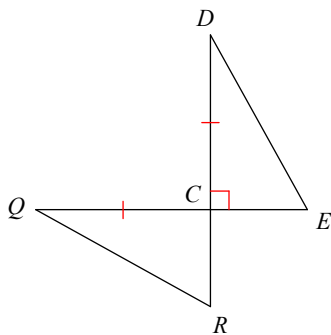


17) SAS

$$\overline{EC} \cong \overline{RC}$$

18) SSS

$$\overline{AC} \cong \overline{SQ}$$



19) AAS

$$\angle H \cong \angle Q$$

20) AAS

$$\overline{VU} \cong \overline{VE}$$

