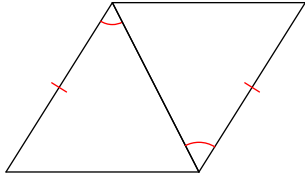


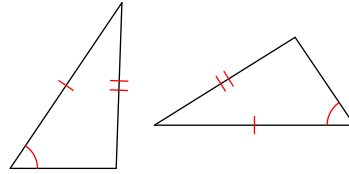
2.7 - Triangle Congruence

State if the two triangles are congruent. If they are, state how you know (SSS, SAS, ASA, AAS, or HL)

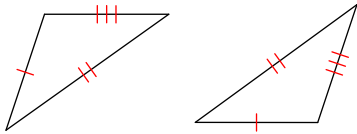
1)



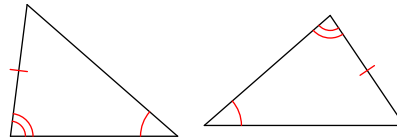
2)



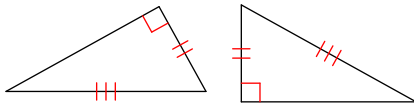
3)



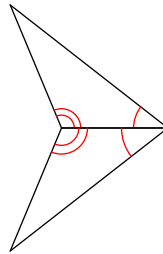
4)



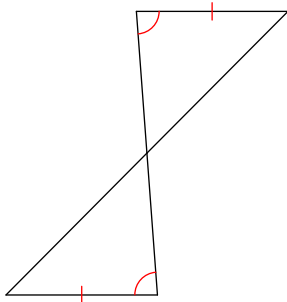
5)



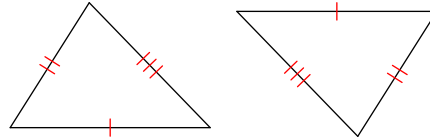
6)



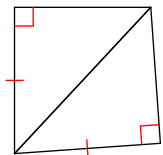
7)



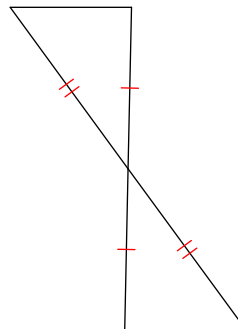
8)



9)

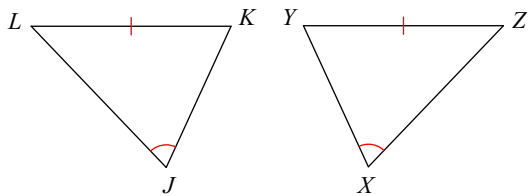


10)

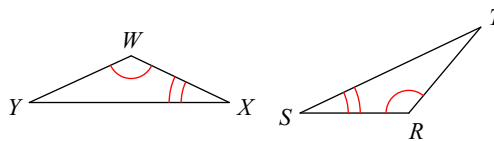


State what additional information is required in order to know that the triangles are congruent for the reason given.

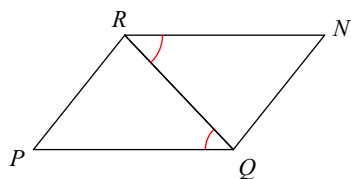
11) AAS



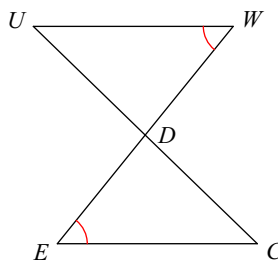
12) AAS



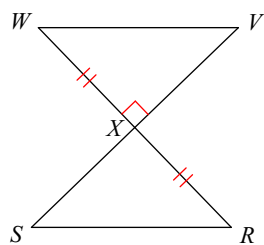
13) ASA



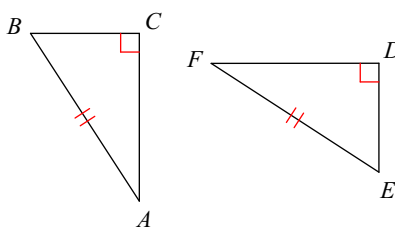
14) ASA



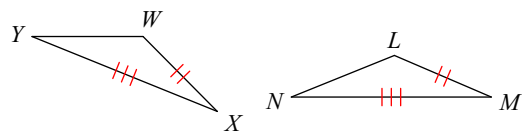
15) HL



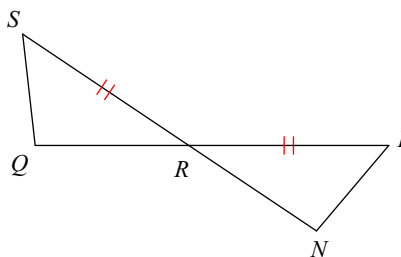
16) HL



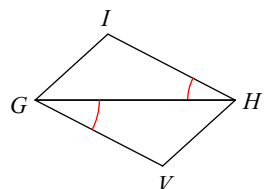
17) SAS



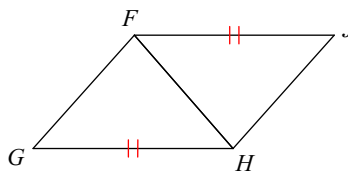
18) SAS



19) SAS



20) SSS



Answers to 2.7 - Triangle Congruence

- | | | | |
|--|--|--|--------|
| 1) SAS | 2) Not congruent | 3) SSS | 4) AAS |
| 5) HL | 6) ASA | 7) AAS | 8) SSS |
| 9) HL | 10) SAS | 11) $\angle K \cong \angle Y$ or $\angle L \cong \angle Z$ | |
| 12) $\overline{XY} \cong \overline{ST}$ or $\overline{YW} \cong \overline{TR}$ | 13) $\angle PRQ \cong \angle NQR$ | 14) $\overline{ED} \cong \overline{WD}$ | |
| 15) $\overline{WV} \cong \overline{RS}$ | 16) $\overline{CB} \cong \overline{DE}$ or $\overline{AC} \cong \overline{FD}$ | 17) $\angle X \cong \angle M$ | |
| 18) $\overline{RQ} \cong \overline{RN}$ | 19) $\overline{IH} \cong \overline{VG}$ | 20) $\overline{GF} \cong \overline{JH}$ | |