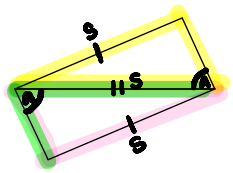
Kuta Software - Infinite Geometry Name Key

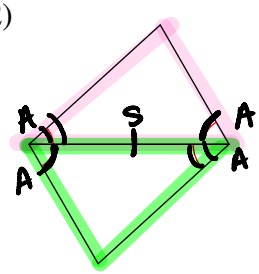
SSS, SAS, ASA, and AAS Congruence

Date_____ Period____

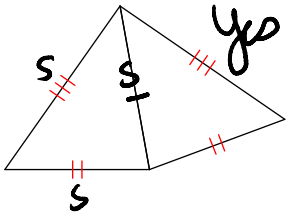
State if the two triangles are congruent. If they are, state how you know.

1) 

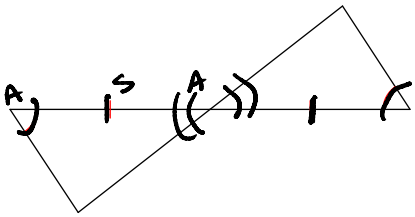
no, ~~ASS~~ not enough info.

2) 

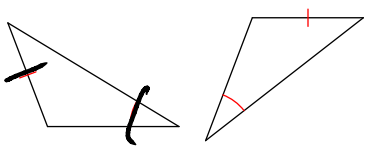
yes, by ASA

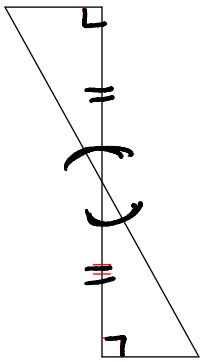
3) 

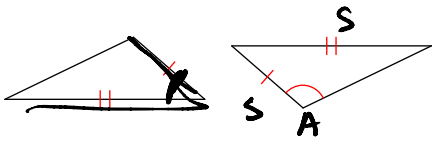
yes; SSS

4) 

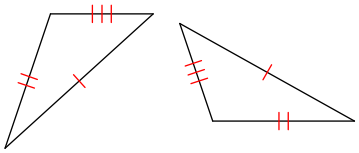
yes ASA

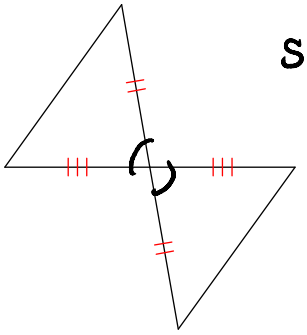
5) 
no

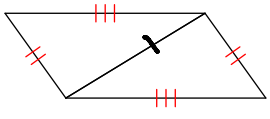
6) 
ASA

7) 

no

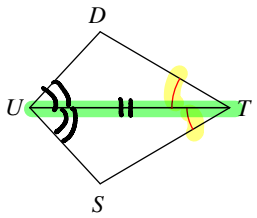
8) 
SSS

9) 
SAS

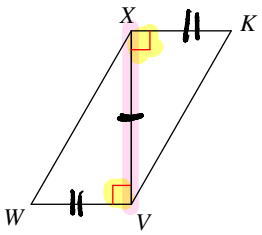
10) 
SSS

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

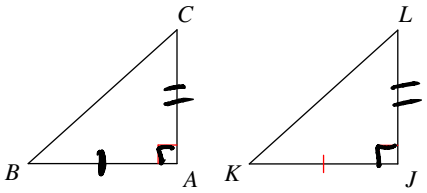
11) ASA $\angle TUS \cong \angle TUD$



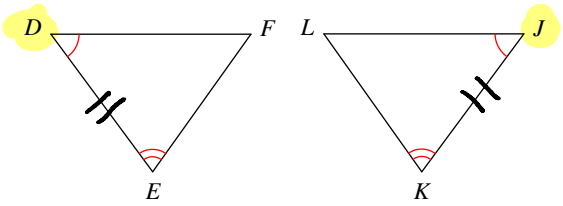
12) SAS $\overline{WV} \cong \overline{KX}$ or $\overline{VW} \cong \overline{XK}$



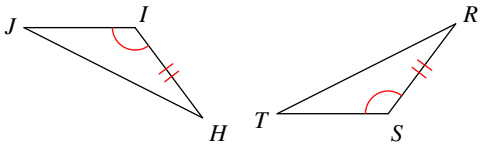
13) SAS $\overline{CA} \cong \overline{LJ}$



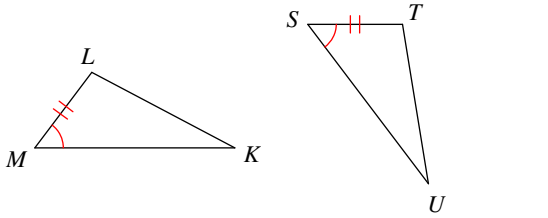
14) ASA $\overline{DE} \cong \overline{JK}$



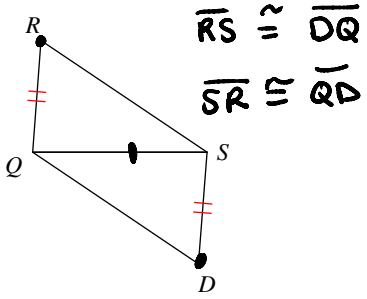
15) SAS $\overline{JI} \cong \overline{TS}$



16) ASA $\angle MLK \cong \angle STU$ or $\angle L \cong \angle T$



17) SSS $\overline{RS} \cong \overline{DQ}$ $\overline{SR} \cong \overline{QD}$



18) SAS $\overline{WV} \cong \overline{MV}$