GSE Geometry Name_____

2.3 - Congruent Triangles

Date_____

Complete each congruence statement by naming the corresponding angle or side.

1) $\triangle XYZ \cong \triangle ZQP$ $\angle P$

$\angle YZX \cong ?$

2) $\triangle ABC \cong \triangle APR$ $\overline{AP}$

$\overline{AB} \cong ?$

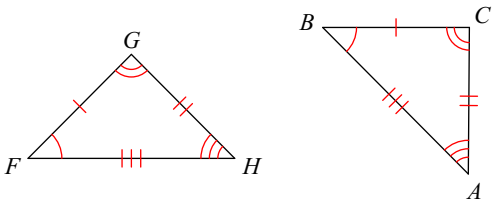
3) $\triangle VWX \cong \triangle VLM$ $\angle L$

$\angle W \cong ?$

4) $\triangle DFE \cong \triangle XYZ$ $\overline{YZ}$

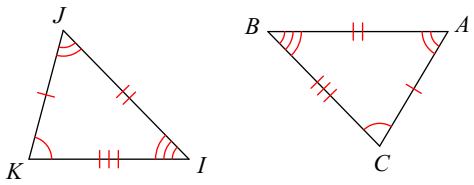
$\overline{FE} \cong ?$

5) $\Delta FGH \cong \Delta BCA$ $\overline{CA}$



$\overline{GH} \cong ?$

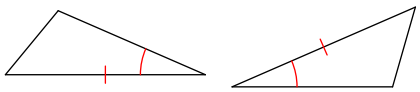
6) $\Delta KJI \cong \Delta CAB$

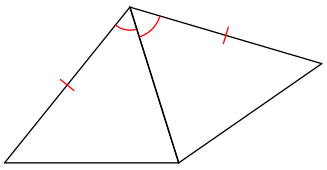


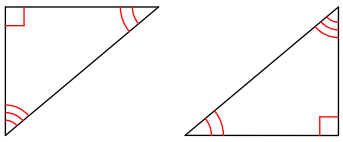
$\angle J \cong ?$

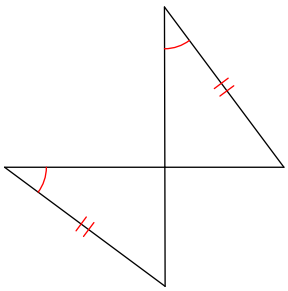
$\angle A$

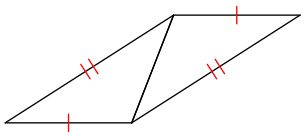
State if the two triangles are congruent by SSS, SAS, ASA, AAS, or HL. If they are not congruent, write NOT CONGRUENT.

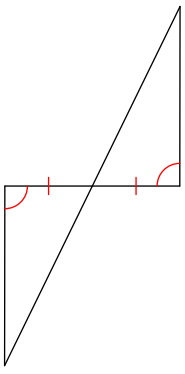
7)  Not congruent

8)  SAS

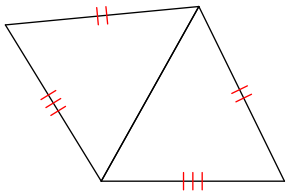
9)  Not congruent

10)  AAS

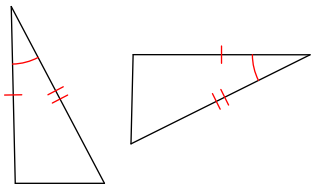
11)  SSS

12)  ASA

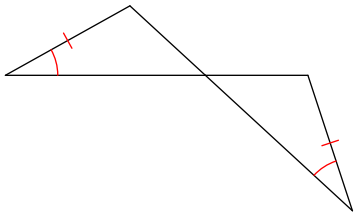
13) SSS



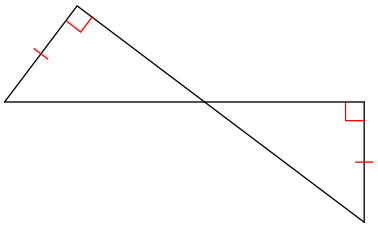
14) SAS



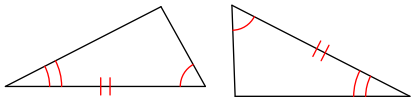
15) AAS



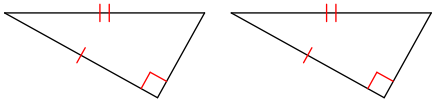
16) ASA



17) ASA

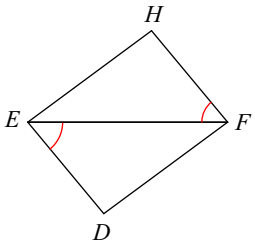


18) HL

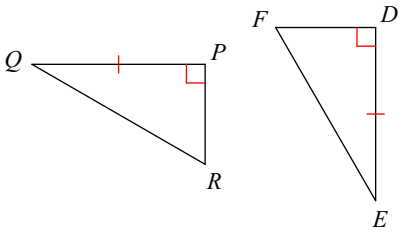


State what additional information is required in order to know that the triangles are congruent for the reason given.

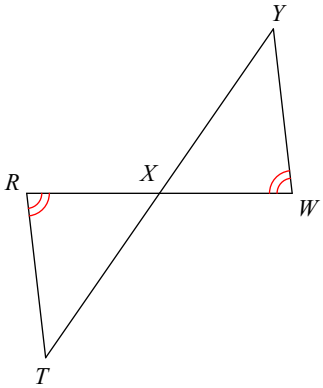
19) AAS $\angle D \cong \angle H$



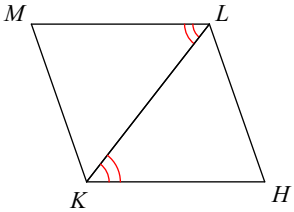
20) HL $\overline{QR} \cong \overline{EF}$



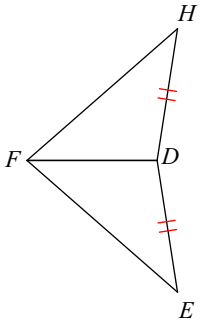
21) ASA $\overline{WX} \cong \overline{RX}$



22) SAS $\overline{ML} \cong \overline{HK}$



23) SSS $\overline{EF} \cong \overline{HF}$



24) ASA $\angle ACB \cong \angle UBC$