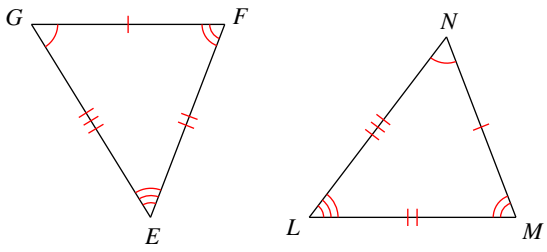
Geometry Name_____

Congruent triangles

Date_____ Period____

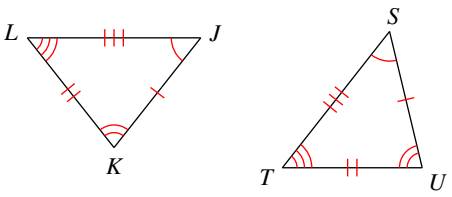
Complete each congruence statement by naming the corresponding angle or side.

1) $\Delta GFE \cong \Delta NML$



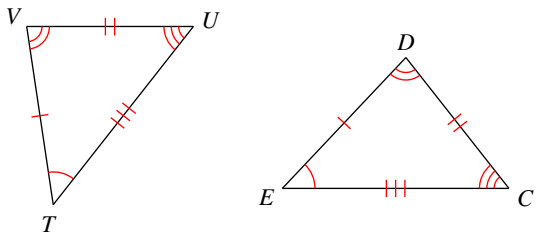
$\angle G \cong$?

2) $\Delta JKL \cong \Delta SUT$



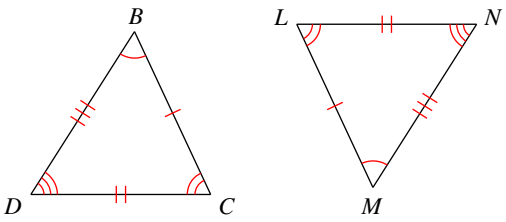
$\angle J \cong$?

3) $\Delta TVU \cong \Delta EDC$



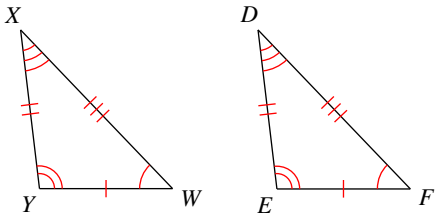
$\angle U \cong$?

4) $\Delta BCD \cong \Delta MLN$



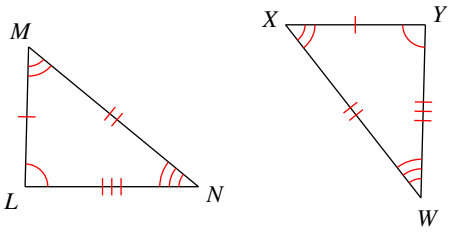
$\overline{DB} \cong$?

5) $\Delta WYX \cong \Delta FED$



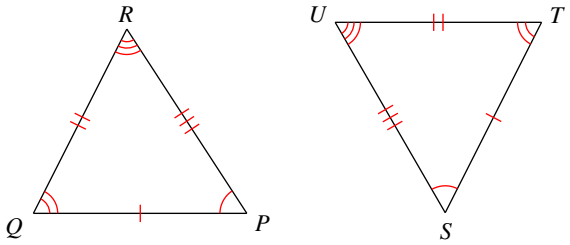
$\overline{XW} \cong$?

6) $\Delta LMN \cong \Delta YXW$



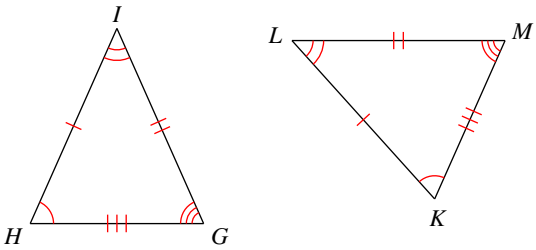
$\angle M \cong$?

7) $\Delta PQR \cong \Delta STU$



$\angle P \cong ?$

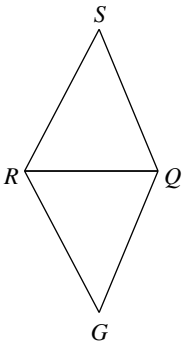
8) $\Delta HIG \cong \Delta KLM$



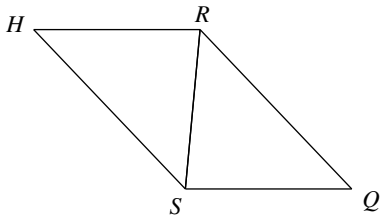
$\overline{IG} \cong ?$

Mark all of the corresponding angles and corresponding sides of each pair of triangles that are congruent.

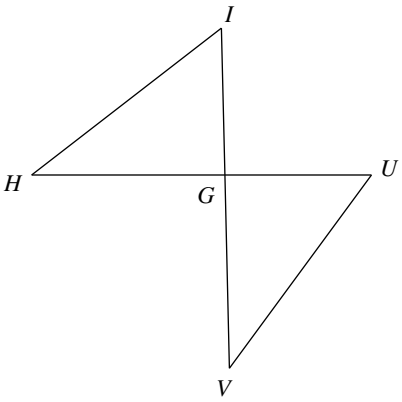
9) $\Delta QRS \cong \Delta QRG$



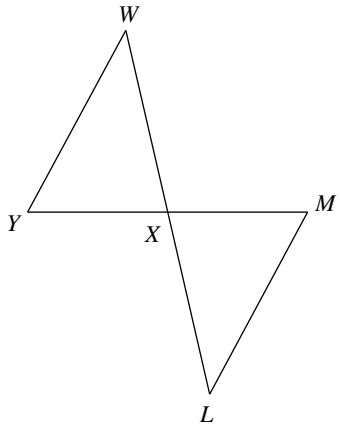
10) $\Delta SRQ \cong \Delta RSH$



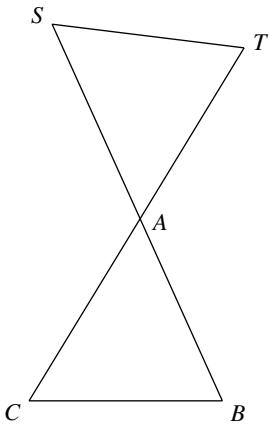
11) $\Delta GHI \cong \Delta GVU$



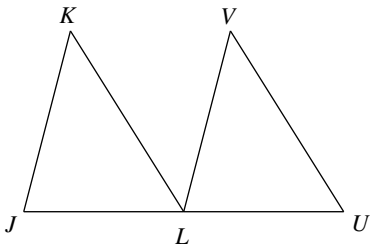
12) $\Delta XYW \cong \Delta XML$



13) $\Delta ABC \cong \Delta ATS$

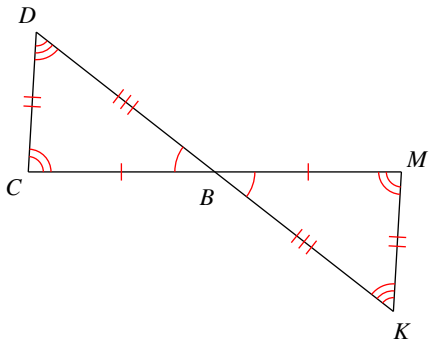


14) $\Delta JKL \cong \Delta LVU$

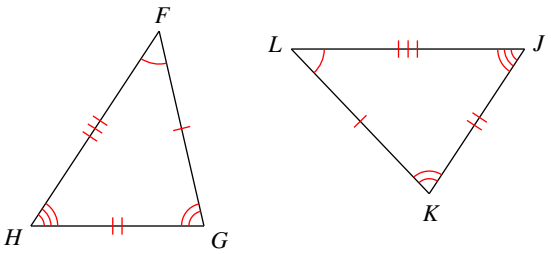


Write a congruence statement that states which triangles are congruent.

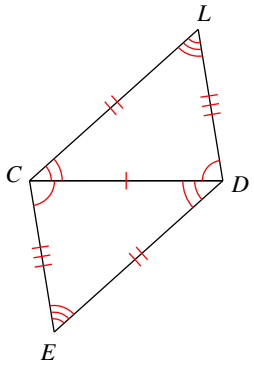
15)



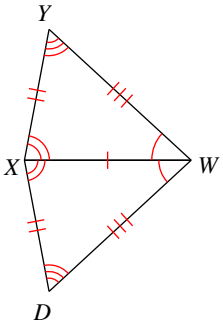
16)



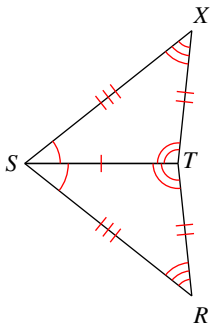
17)



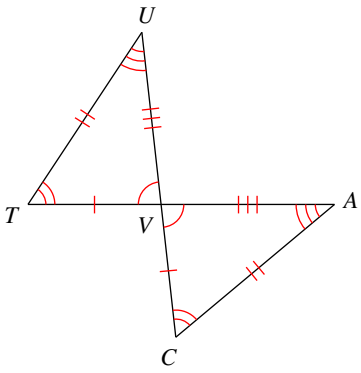
18)



19)

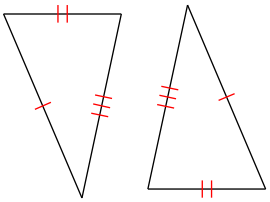


20)



State if the two triangles are congruent, YES or NO. If they are congruent decide whether they are congruent by: SSS, ASA, SAS, or AAS.

21)



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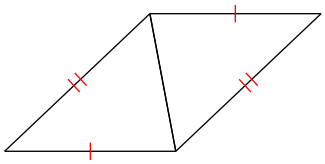
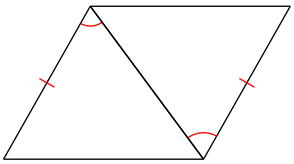


23)



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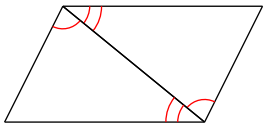

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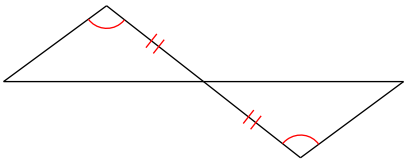

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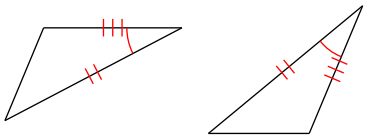
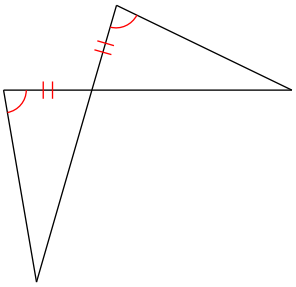
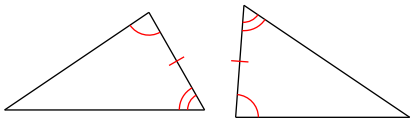


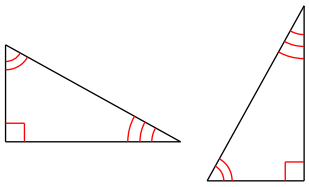
27)



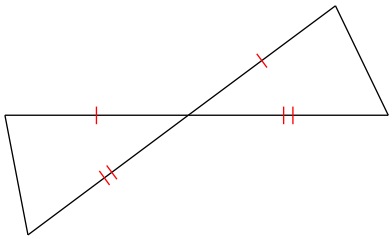
28)



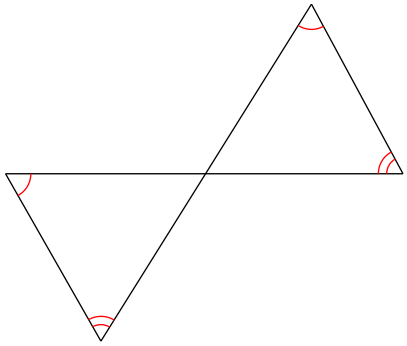
29)



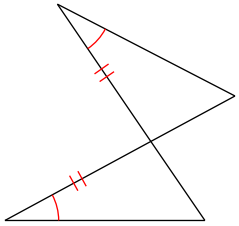
30)



31)

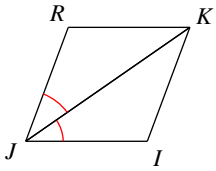


32)

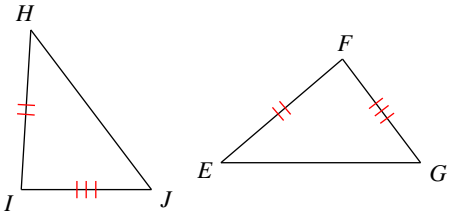


State what additional information is required in order to know that the triangles are congruent for the reason given.

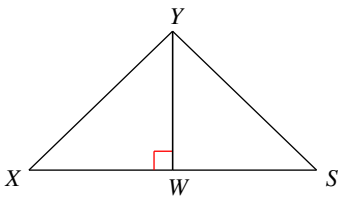
33) SAS



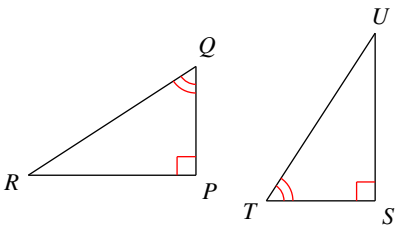
34) SSS



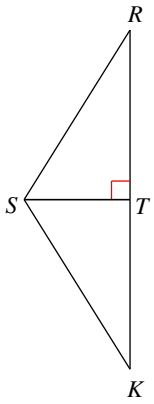
35) SAS



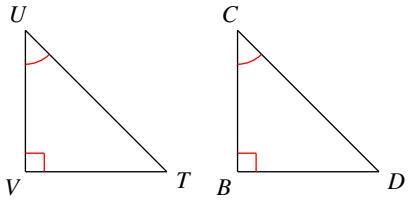
36) ASA



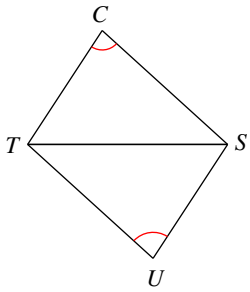
37) ASA



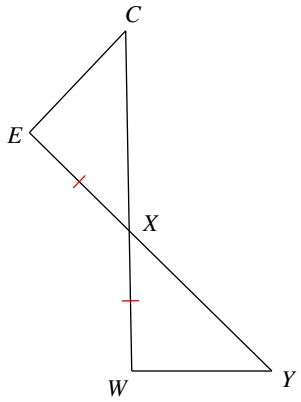
38) ASA



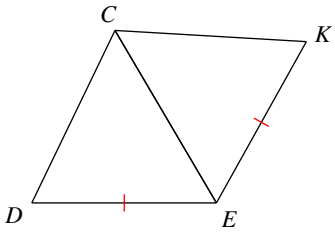
39) AAS



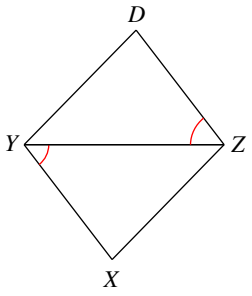
40) ASA



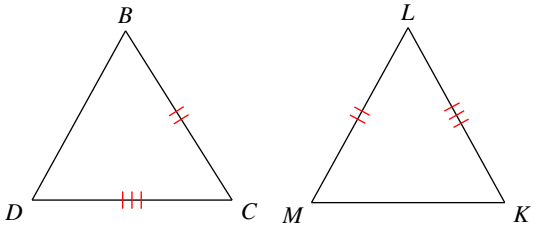
41) SSS



42) SAS



43) SAS



44) SAS