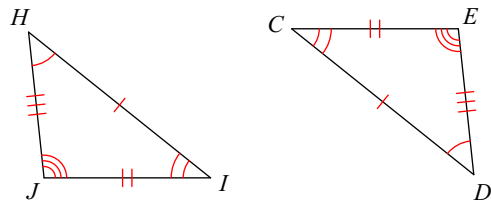


Geometry - Homework 17

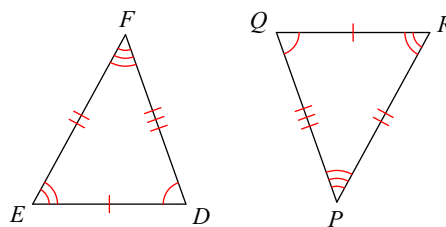
Complete each congruence statement by naming the corresponding angle or side.

1) $\triangle HIJ \cong \triangle DCE$



$\overline{JH} \cong ?$

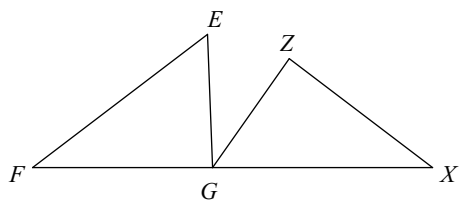
2) $\triangle DEF \cong \triangle QRP$



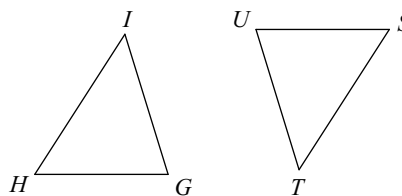
$\overline{EF} \cong ?$

Mark the angles and sides of each pair of triangles to indicate that they are congruent.

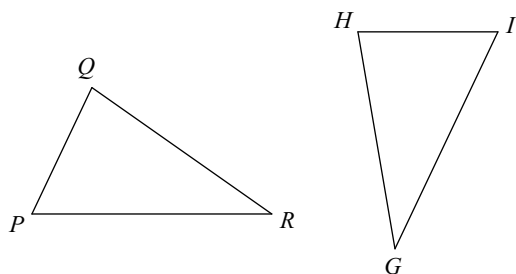
3) $\triangle FEG \cong \triangle XGZ$



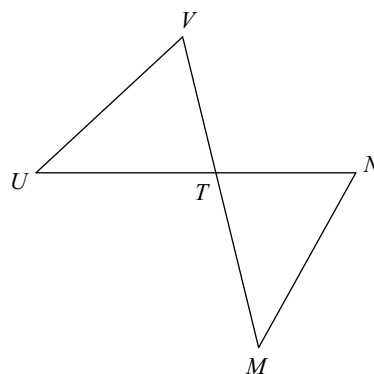
4) $\triangle HIG \cong \triangle STU$



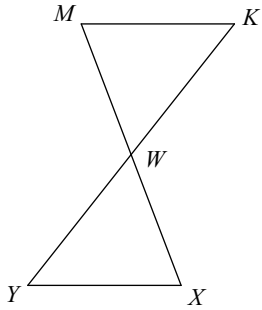
5) $\triangle QRP \cong \triangle HGI$



6) $\triangle TUV \cong \triangle TMN$

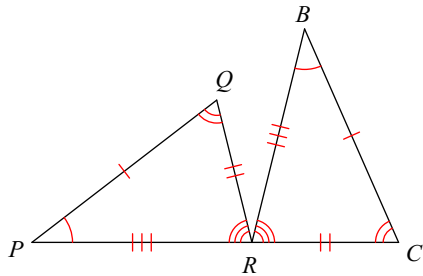


7) $\triangle WXY \cong \triangle WMK$

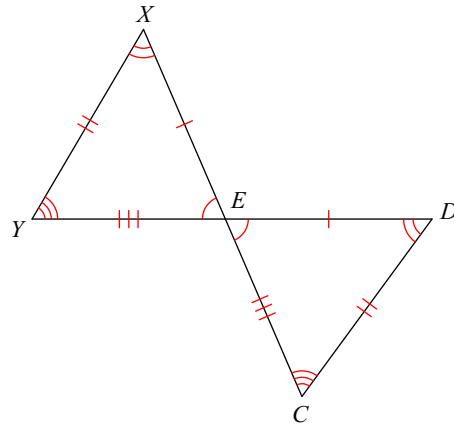


Write a statement that indicates that the triangles in each pair are congruent.

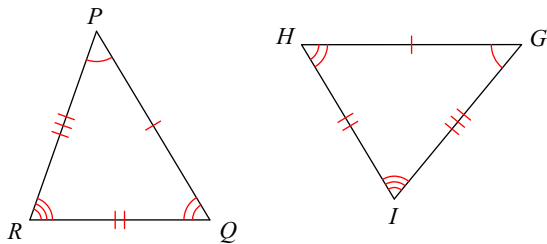
8)



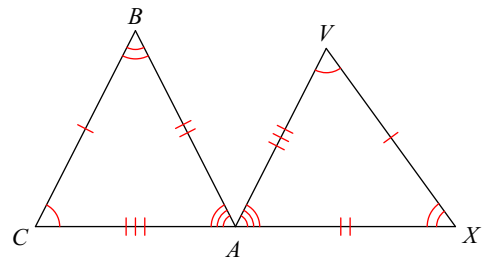
9)



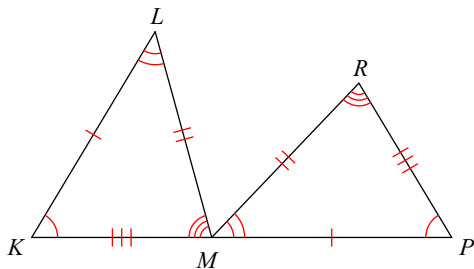
10)



11)

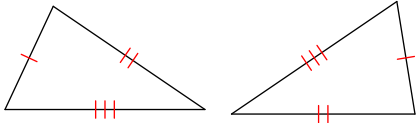


12)

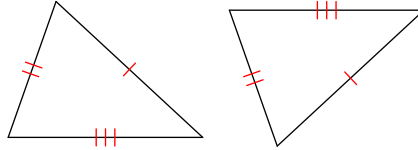


Determine if the two triangles are congruent. If they are, state how you know.

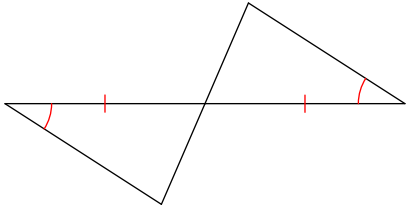
13)



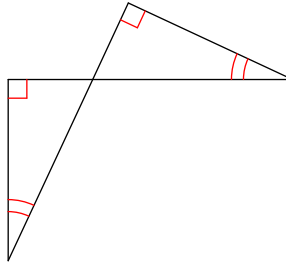
14)



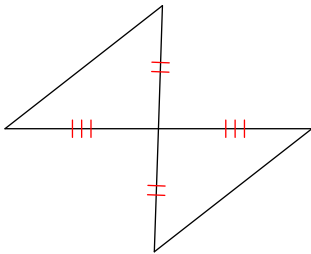
15)



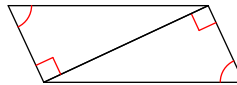
16)



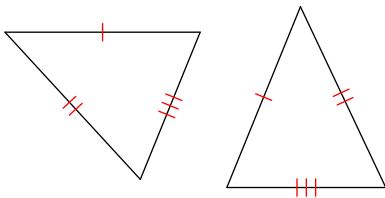
17)



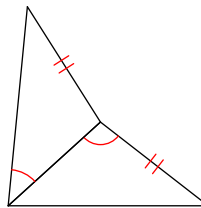
18)



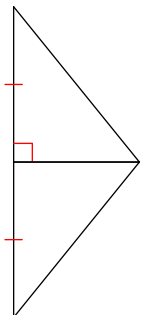
19)



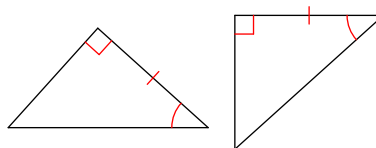
20)



21)

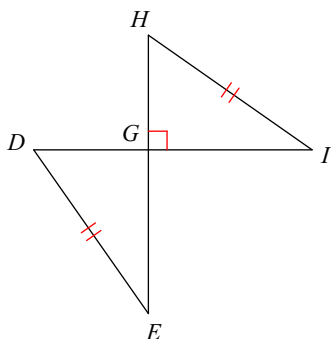


22)

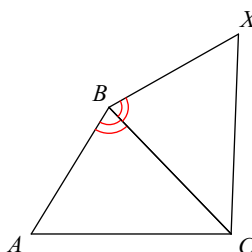


State what additional information is required in order to know that the triangles are congruent for the reason given.

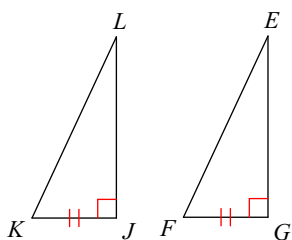
23) HL



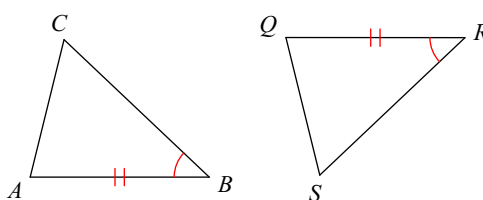
24) AAS



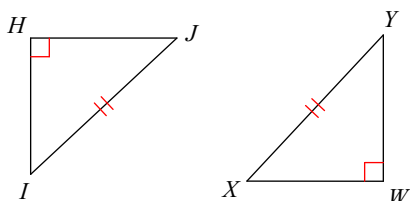
25) HL



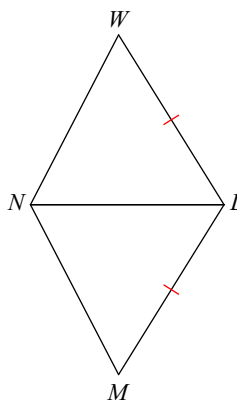
26) SAS



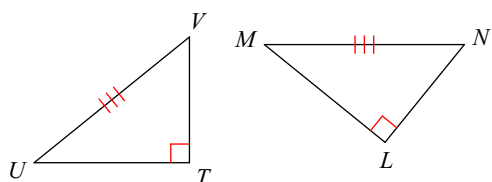
27) HA



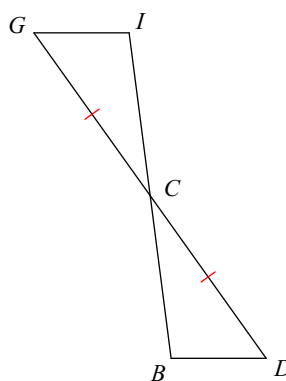
28) SSS



29) HL



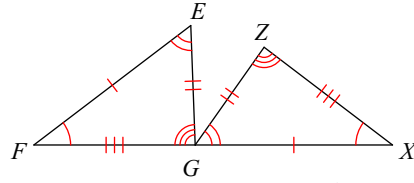
30) AAS



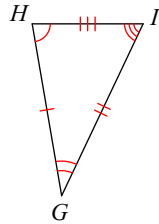
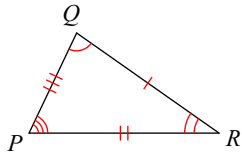
Answers to Geometry - Homework 17

1) \overline{ED}

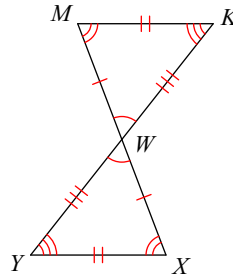
3)



5)



7)



9) $\triangle EDC \cong \triangle EXY$

11) $\triangle CBA \cong \triangle VXA$

13) SSS

15) ASA

17) SAS

19) SSS

21) LL

23) $\overline{GH} \cong \overline{GD}$ or $\overline{IG} \cong \overline{EG}$

25) $\overline{KL} \cong \overline{FE}$

27) $\angle I \cong \angle X$ or $\angle J \cong \angle Y$

29) $\overline{TU} \cong \overline{LM}$ or $\overline{VT} \cong \overline{NL}$