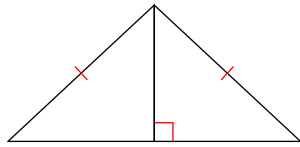


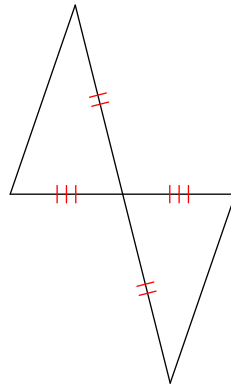
### Unit 8.3 Prove Triangles Congruent by SSS, SAS and HL EXAMPLE

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

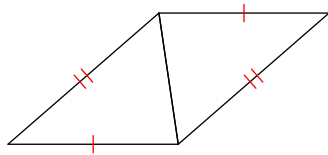
1)



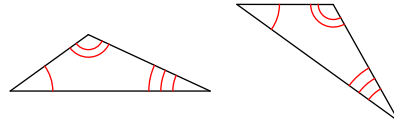
2)



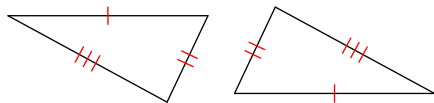
3)



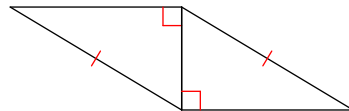
4)



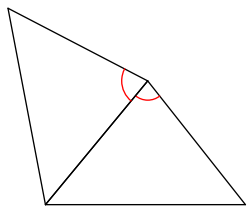
5)



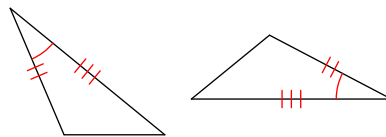
6)



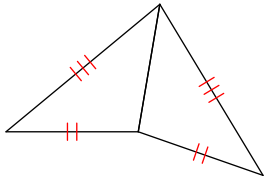
7)



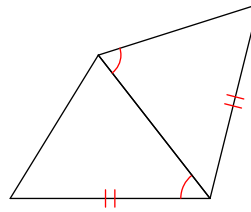
8)



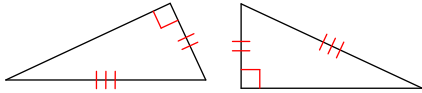
9)



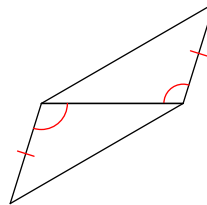
10)



11)

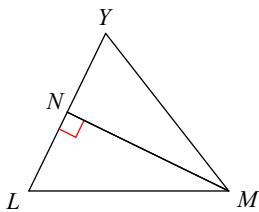


12)

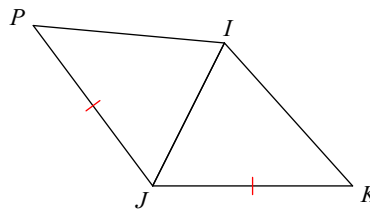


**State what additional information is required in order to know that the triangles are congruent for the reason given.**

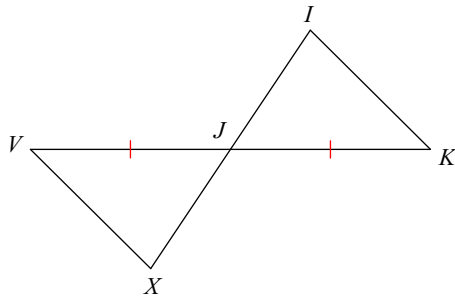
13) HL



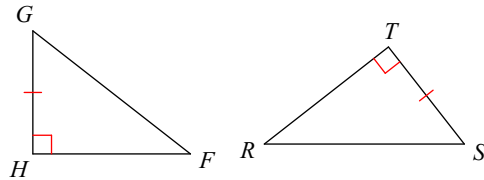
14) SAS



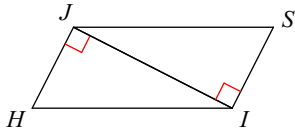
15) SAS



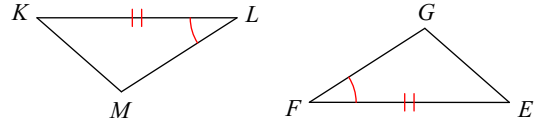
16) HL



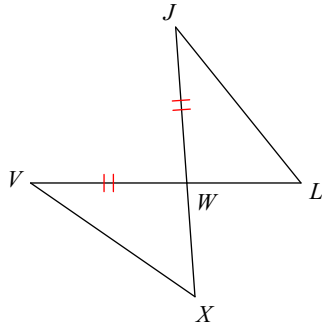
17) HL



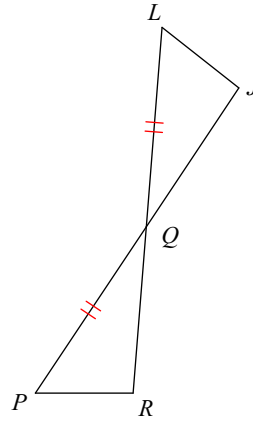
18) SAS



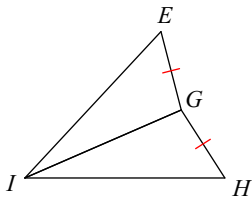
19) SAS



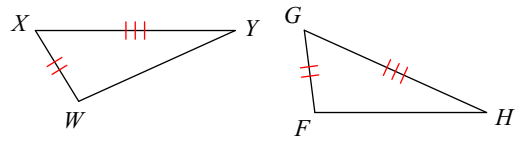
20) SAS



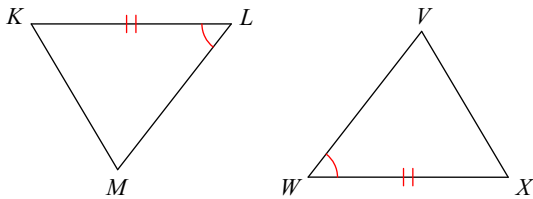
21) SSS



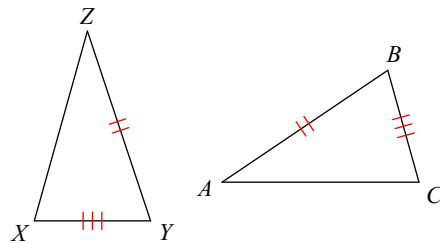
22) SSS



23) SAS



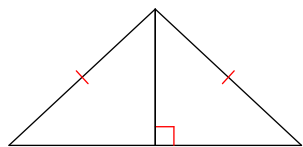
24) SAS



### Unit 8.3 Prove Triangles Congruent by SSS, SAS and HL EXAMPLE

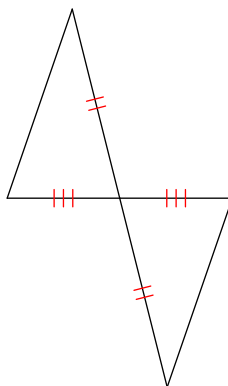
Determine if the two triangles are congruent. If they are, state how you know.

1)



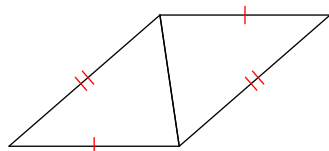
HL

2)



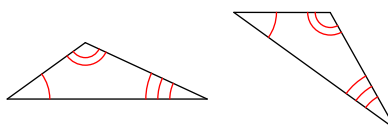
SAS

3)



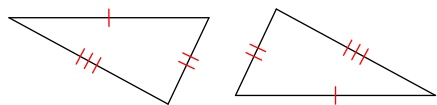
SSS

4)



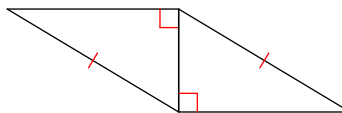
Not enough information

5)



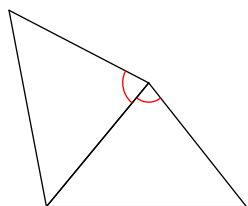
SSS

6)



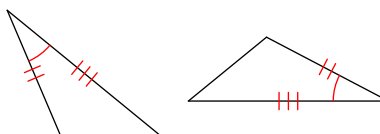
HL

7)



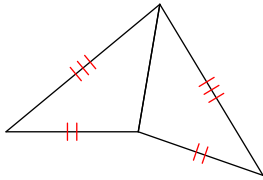
Not enough information

8)



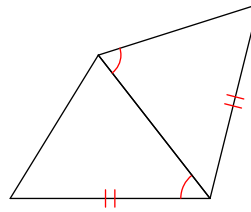
SAS

9)



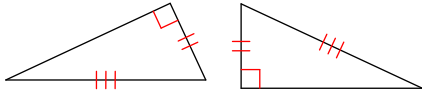
SSS

10)



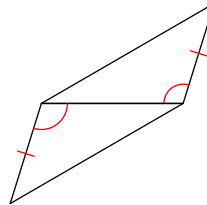
Not enough information

11)



HL

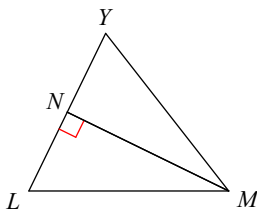
12)



SAS

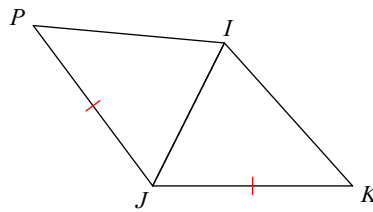
**State what additional information is required in order to know that the triangles are congruent for the reason given.**

13) HL



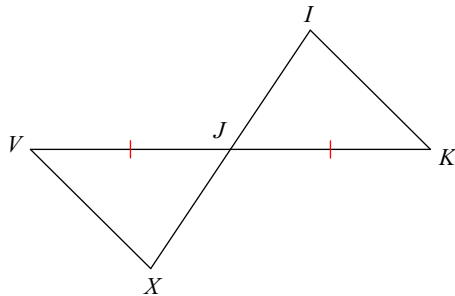
$\overline{ML} \cong \overline{MY}$

14) SAS



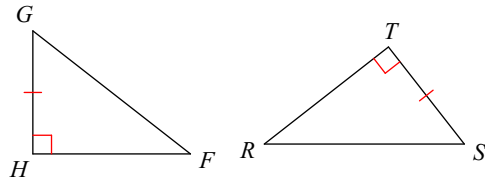
$\angle KJI \cong \angle PJI$

15) SAS



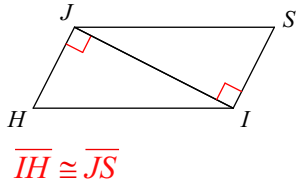
$\overline{JI} \cong \overline{JX}$

16) HL

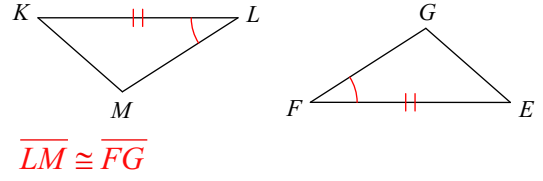


$\overline{GF} \cong \overline{SR}$

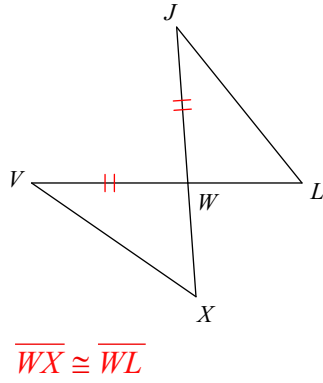
17) HL



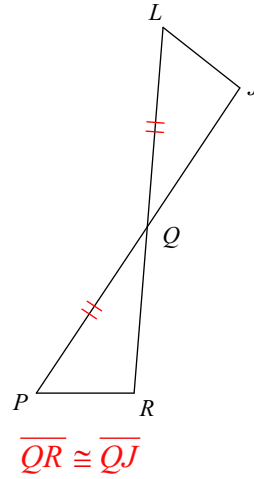
18) SAS



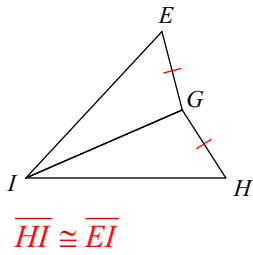
19) SAS



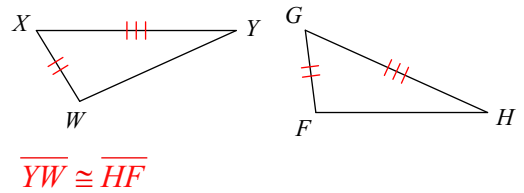
20) SAS



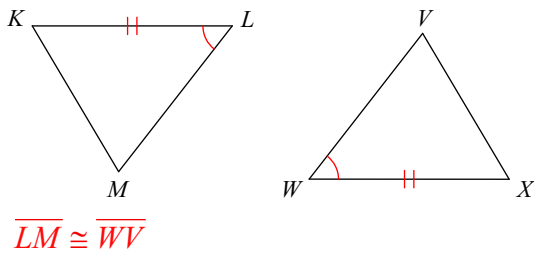
21) SSS



22) SSS



23) SAS



24) SAS

