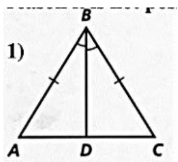
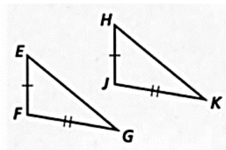
Name ______________________________________________ Date ____________________

# Day 6 – Triangle Congruence

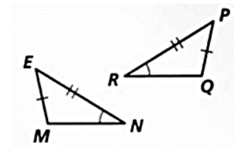
Determine whether the triangles are congruent. If they are congruent fill in the congruence statement and name the reason (**SSS**, **SAS**, **AAS**, **ASA**, or **HL**). If they are not congruent, put an **X** in the congruence statement and write **not ≅**.

1. 

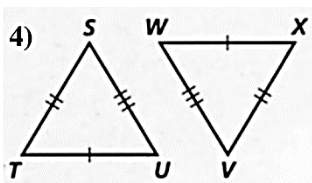

ΔABD ≅ Δ_______ by ______

2. 

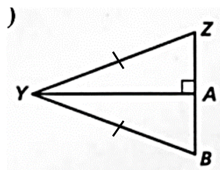

ΔEFG ≅ Δ_______ by ______

3. 

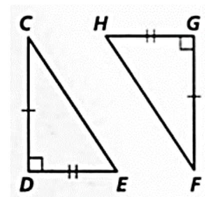

ΔEMN ≅ Δ_______ by ______

4. 

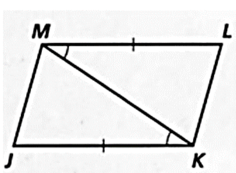

ΔSTU ≅ Δ_______ by ______

5. 

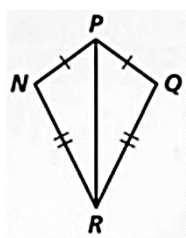

ΔYZA ≅ Δ_______ by ______

6. 

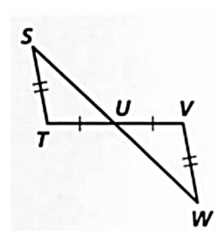

ΔCDE ≅ Δ_______ by ______

7. 

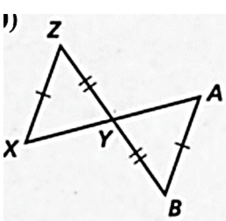

ΔKJM ≅ Δ_______ by ______

8. 

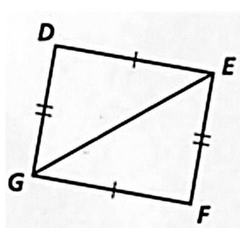

ΔNPR ≅ Δ_______ by ______

9. 

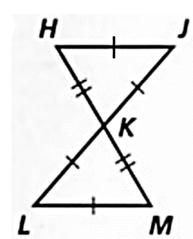

ΔSTU ≅ Δ_______ by ______

10. 

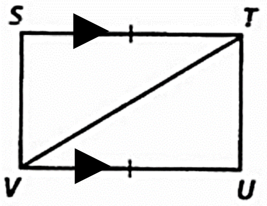

ΔXYZ ≅ Δ_______ by ______

11. 

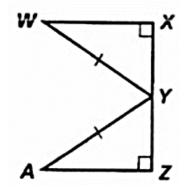

ΔDEG ≅ Δ_______ by ______

12. 

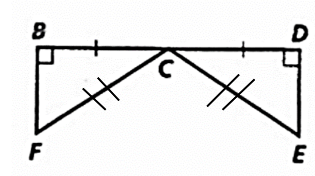

ΔHJK ≅ Δ_______ by ______

13. 

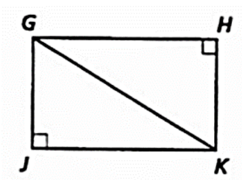

ΔSTV ≅ Δ_______ by ______

14. 

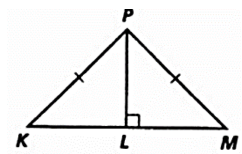

ΔWXY ≅ Δ_______ by ______

15. 

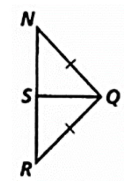

ΔBCF ≅ Δ_______ by ______

16. 

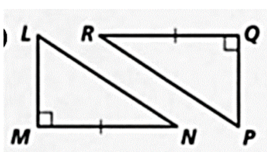

ΔGJK ≅ Δ_______ by ______

17. 

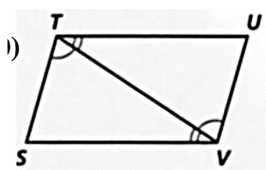

ΔKLP ≅ Δ_______ by ______

18. 

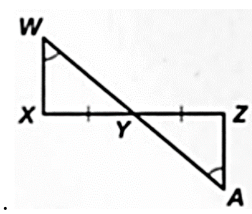

ΔNSQ ≅ Δ_______ by ______

19. 

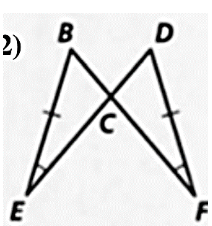

ΔLMN ≅ Δ_______ by ______

20. 

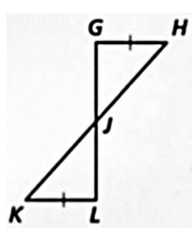

ΔSTV ≅ Δ_______ by ______

21. 

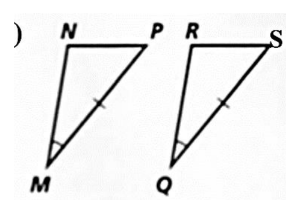

ΔWXY ≅ Δ_______ by ______

22. 


ΔBCE ≅ Δ_______ by ______

23. 

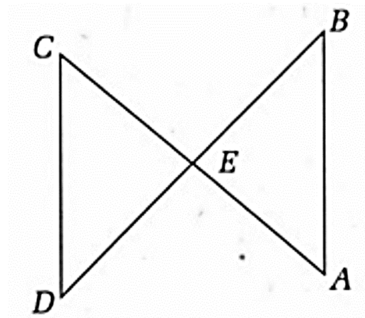

ΔGHJ ≅ Δ_______ by ______

24. 


ΔNPM ≅ Δ_______ by ______

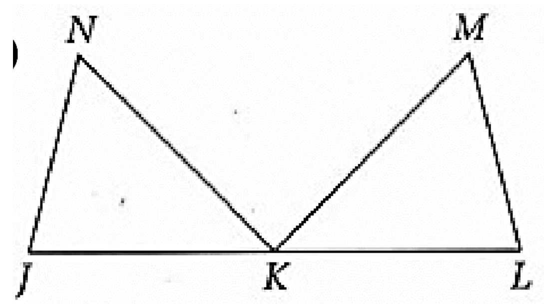
Use the given information to mark the diagram appropriately. Fill in the congruence statement and name the reason (**SSS**, **SAS**, **AAS**, **ASA**, or **HL**).

28. **Given:** $\overline{CD} \cong \overline{AB}$; $\angle B \cong \angle D$



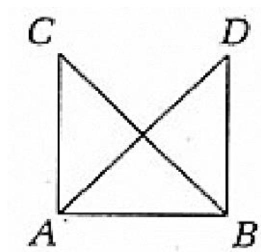

$\Delta CDE \cong \Delta$_______ by ______

29. **Given:** $\overline{JN} \cong \overline{LM}$; $\overline{NK} \cong \overline{MK}$; $\angle N \cong \angle M$



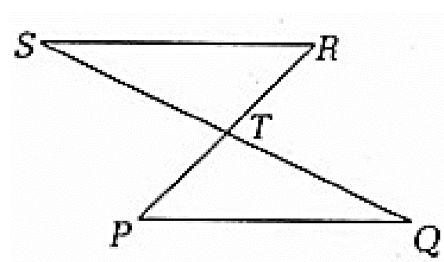

$\Delta JKN \cong \Delta$_______ by ______

30. **Given:** $\overline{AC} \cong \overline{BD}$; $\overline{AD} \cong \overline{BC}$



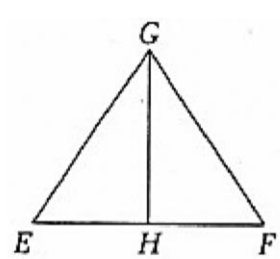

$\Delta ABC \cong \Delta$_______ by ______

31. **Given:** $\overline{SQ}$ and $\overline{PR}$ bisect each other




$\Delta RST \cong \Delta$_______ by ______

32. **Given:** $\overline{GH}$ bisects $\angle EGF$; $\overline{EG} \cong \overline{FG}$




$\Delta EGH \cong \Delta$_______ by ______