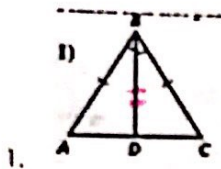
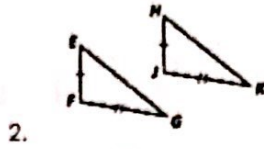


Day 3 - Triangle Congruence Theorems Practice

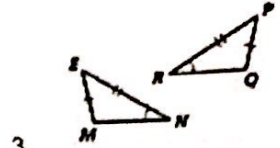
Determine whether the triangles are congruent. If they are congruent fill in the congruence statement and name the reason (SSS, SAS, AAS, or ASA). If they are not congruent, put an X in the congruence statement and write not \cong .



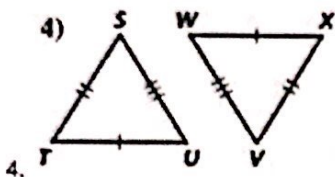
$\triangle ABD \cong \triangle CBD$ by SAS



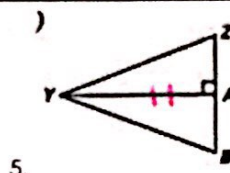
$\triangle EFG \cong \triangle HJK$ by X



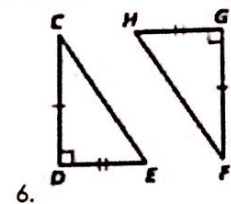
$\triangle EMN \cong \triangle PQR$ by X



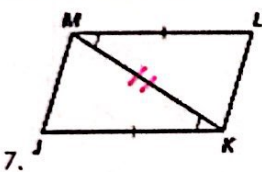
$\triangle STU \cong \triangle VWX$ by SSS



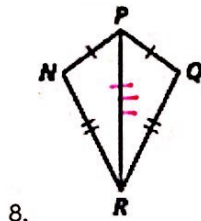
$\triangle YZA \cong \triangle BZA$ by X



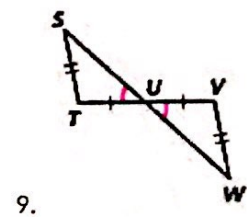
$\triangle CDE \cong \triangle FGH$ by SAS



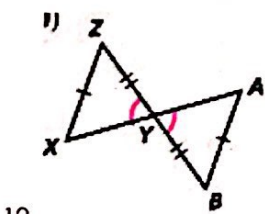
$\triangle KJM \cong \triangle MLK$ by SAS



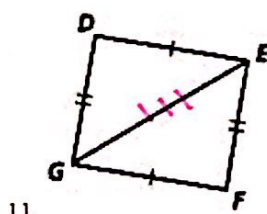
$\triangle NPR \cong \triangle QPR$ by SSS



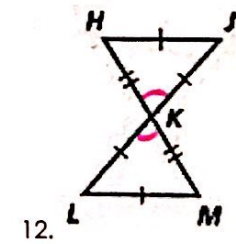
$\triangle STU \cong \triangle VWU$ by X



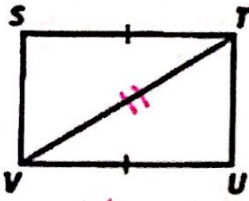
$\triangle XYZ \cong \triangle YAB$ by X



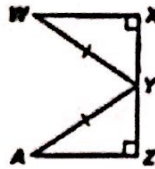
$\triangle DEG \cong \triangle FEG$ by SSS



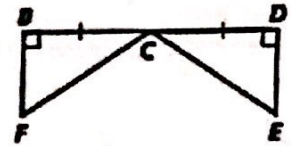
$\triangle HJK \cong \triangle LMK$ by SAS
SSS



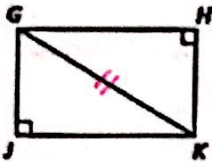
13. $\triangle STV \cong \triangle$ ~~UV~~ by _____



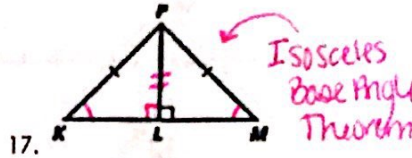
14. $\triangle WXY \cong \triangle$ ~~XYZ~~ by _____



15. $\triangle BCF \cong \triangle$ ~~EDC~~ by _____



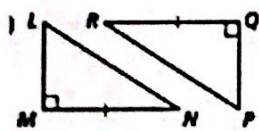
16. $\triangle GJK \cong \triangle$ ~~HJK~~ by _____



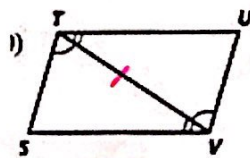
17. $\triangle KLP \cong \triangle$ MLP by AAS



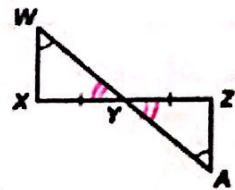
18. $\triangle NSQ \cong \triangle$ ~~RSQ~~ by _____



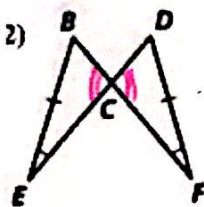
19. $\triangle LMN \cong \triangle$ ~~MNP~~ by _____



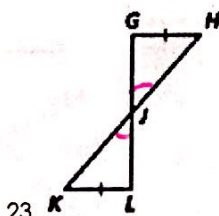
20. $\triangle STV \cong \triangle$ UVT by ASA



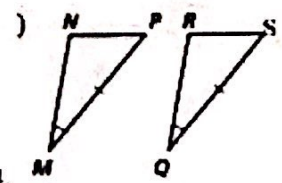
21. $\triangle WXY \cong \triangle$ AZY by AAS



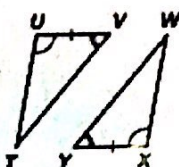
22. $\triangle BCE \cong \triangle$ DCF by AAS



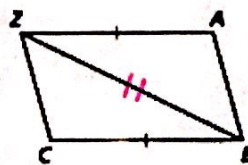
23. $\triangle GHJ \cong \triangle$ ~~JLH~~ by _____



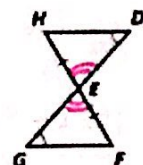
24. $\triangle NPM \cong \triangle$ ~~RQS~~ by _____



25. $\triangle TUV \cong \triangle$ WXY by ASA



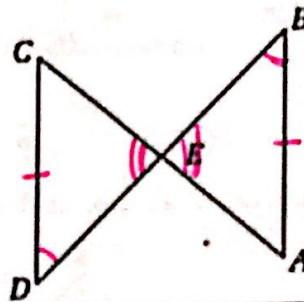
26. $\triangle ABC \cong \triangle$ ~~ZAC~~ by _____



27. $\triangle EFG \cong \triangle$ EHD by AAS

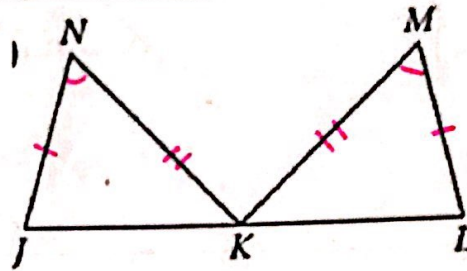
Use the given information to mark the diagram appropriately. Complete a proof to show the triangles are congruent. (SSS, SAS, AAS, ASA).

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



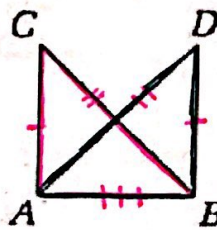
$\triangle CDE \cong \triangle ABE$ by ASA

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



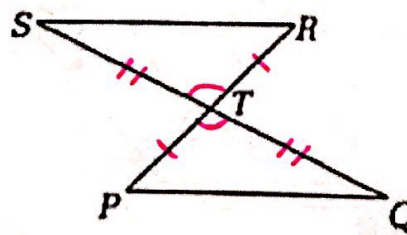
$\triangle JKN \cong \triangle LKM$ by SAS

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



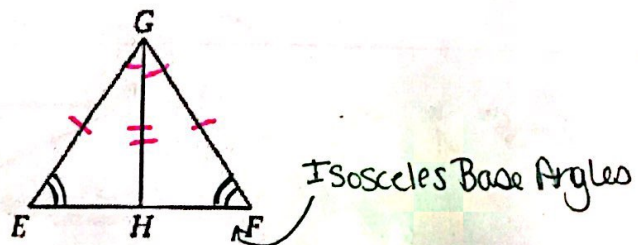
$\triangle ABC \cong \triangle BAD$ by SSS

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



$\triangle RST \cong \triangle PQT$ by SAS

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



$\triangle EGH \cong \triangle FGH$ by SAS
ASA

Geometry

Unit 4: Triangle Congruence

Notes & Practice

Determine if the following triangles are congruent. Create a congruence statement and name the theorem used to prove the triangles are congruent.

33.

$\triangle TSV \cong \triangle VUT$ by ASA

34.

$\triangle LFZ \cong \triangle R K J$ by AAS

35.

$\triangle ATM \cong \triangle$ X by _____

36.

$\triangle GXM \cong \triangle$ CW D by ASA

37.

$\triangle HJK \cong \triangle$ RFT by SSS

38.

$\triangle KPT \cong \triangle$ KWT by SAS

39.

$\triangle ABD \cong \triangle$ COB by SSS

40.

$\triangle WXY \cong \triangle$ X by _____

41.

$\triangle ZAY \cong \triangle$ XWY by AAS

42.

$\triangle NMP \cong \triangle$ QRP by SAS

43.

$\triangle PNM \cong \triangle$ MQP by SSS

44.

$\triangle NSP \cong \triangle$ LOB by SAS

45.

$\triangle FMQ \cong \triangle$ X by _____

46.

$\triangle GMD \cong \triangle$ X by _____

47.

$\triangle CED \cong \triangle$ CBA by ASA