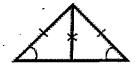
CC Geometry

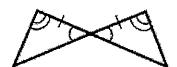
Review for Triangle Proofs Quiz

In 1-9, each figure shows two triangles and congruent parts have been marked. Identify the postulate (SSS, SAS, ASA, AAS or HL) that can be used to prove that the triangles are congruent, or write "can't be done".

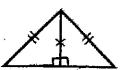
1.



2.



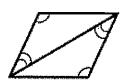
3.



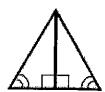
4.



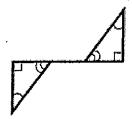
5.



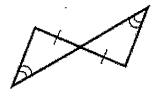
6.



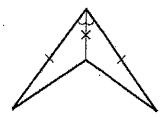
7.



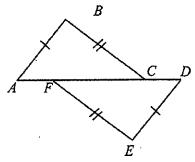
8.



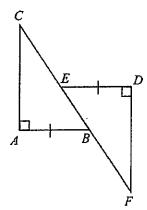
9.



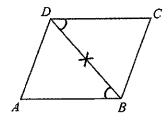
10. Name the sides that would have to be congruent to use the SSS congruence postulate.



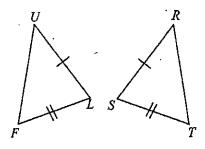
11. Name the sides that would have to be congruent to use the SAS congruence postulate.



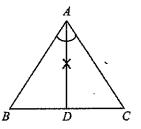
12. Name the angles that would have to be congruent to use the ASA congruence postulate.



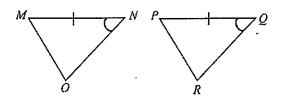
13. Name the angles that would have to be congruent to use the SAS congruence postulate.



14. Name the angles that would have to be congruent to use the AAS congruence postulate.



15. Name the sides that would have to be congruent to use the SAS congruence postulate.

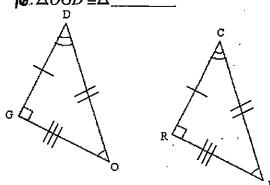


Triangle Congruence

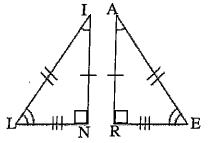
Name the congruent triangles.

| 6. △OGD ≅△_

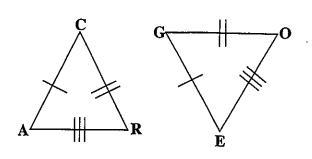
)



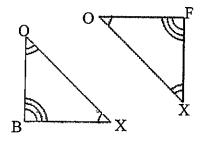
ig. △LIN ≅△



 $17.\Delta RAC \cong \Delta$



 $\mathbf{19.} \ \triangle FOX \cong \triangle_{-}$



II. Name the congruent triangle and the congruent parts..

20.

△*FGH* ≅△_____

$$\overline{FG}\cong$$

$$\overline{GH}\cong$$

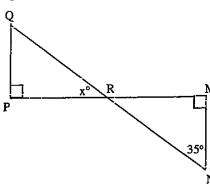
$$\measuredangle H \cong \measuredangle$$

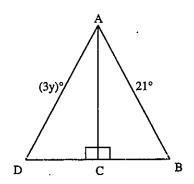
Use the congruency statement to fill in the corresponding congruent parts.

$$\overline{FE} \cong$$

$$\overline{FI}\cong$$

23. $\triangle ABC \cong \triangle ADC$. Find y.



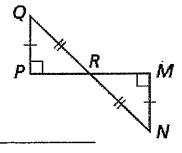


Proving Triangles Congruent

શ્ર્મ, Given: $\angle P$ and $\angle M$ are right angles. R is the midpoint of \overline{PM} .

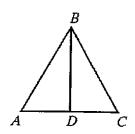
 $\overline{PQ} \cong \overline{MN}, \overline{QR} \cong \overline{NR}$

Prove: $\triangle PQR \cong \triangle MNR$



35. Given: $\triangle ABC$ is isosceles with vertex B. D is the midpoint of \overline{AC} .

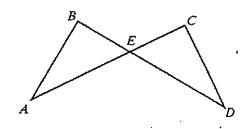
Prove: $\triangle ABD \cong \triangle CBD$



Statements	Reasons
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U- Given: $\overline{DB} \perp \overline{AB}, \overline{AC} \perp \overline{DC}, \overline{BE} \cong \overline{CE}$

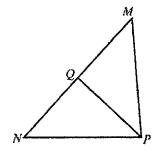
 $Prove: \triangle ABE \cong \triangle DCE$



Statements	Reasons	

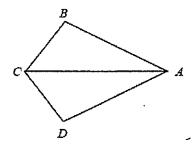
27. Given: \overline{PQ} bisects \overline{MN} , $\overline{PQ} \perp \overline{MN}$

Prove: $\Delta MPQ \cong \Delta NPQ$



Statements	Reasons	
	,	

28. Given: \overline{AC} bisects $\angle BCD$, $\angle B \cong \angle D$ Prove: $\triangle ABC \cong \triangle ADC$



Statements	Reasons