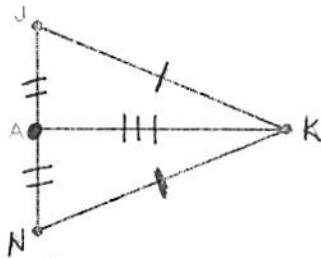


Given: $\overline{JK} \cong \overline{NK}$

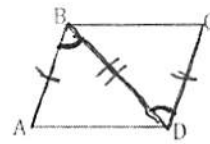
A is the midpoint of \overline{JN}

Prove: $\triangle JAK \cong \triangle NAK$



Statement	Reason
① $\overline{JK} \cong \overline{NK}$ A midpoint of \overline{JN}	① Given
② $\overline{JA} \cong \overline{AN}$	② Def. of Midpoint
③ $\overline{AK} \cong \overline{AK}$	③ Reflexive Property
④ $\triangle JAK \cong \triangle NAK$	④ SSS

Given: $\overline{AB} \cong \overline{CD}$, $\angle ABD \cong \angle CDB$

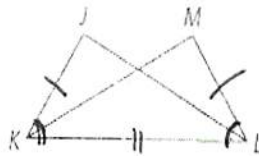


Prove: $\triangle ABD \cong \triangle CDB$

Statement	Reason
① $\overline{AB} \cong \overline{CD}$ $\angle ABD \cong \angle CDB$	① Given
② $\overline{BD} \cong \overline{BD}$	② Reflexive Property
③ $\triangle ABD \cong \triangle CDB$	③ SAS

Given: $\overline{JK} \cong \overline{ML}$, $\angle JKL \cong \angle MLK$

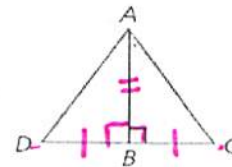
Prove: $\triangle JKL \cong \triangle MLK$



Statement	Reasons
① $\overline{JK} \cong \overline{ML}$ $\angle JKL \cong \angle MLK$	① Given
② $\overline{KL} \cong \overline{KL}$	② Reflexive Property
③ $\triangle JKL \cong \triangle MLK$	③ SAS

Given: B is the midpoint of \overline{DC} , $\overline{AB} \perp \overline{DC}$

Prove: $\triangle ABD \cong \triangle ABC$

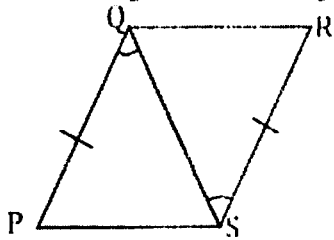


Statements	Reason
① B is the midpoint of \overline{DC} $\overline{AB} \perp \overline{DC}$	① Given
② $\overline{DB} \cong \overline{BC}$	② Def. of Midpoint.
③ $\angle ABD$ & $\angle ABC$ are Right \angle 's	③ Def. of perpendicular
④ $\angle ABD \cong \angle ABC$	④ Right \angle Thm.
⑤ $\overline{AB} \cong \overline{AB}$	⑤ Reflexive Property
⑥ $\triangle ABD \cong \triangle ABC$	⑥ SAS

Triangle Proofs- SSS & SAS

1.

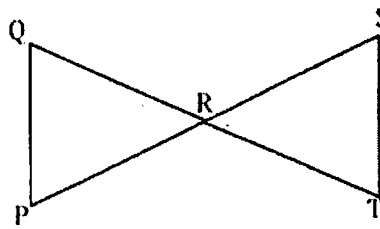
2. Given: $\overline{PQ} \cong \overline{RS}$, and $\angle PQS \cong \angle RSQ$



Prove: $\triangle PQR \cong \triangle RSQ$

Statements	Reasons
1.	1. Given
2.	2. Given
3. $\overline{QS} \cong \overline{QS}$	3.
4. $\triangle PQR \cong \triangle RSQ$	4.

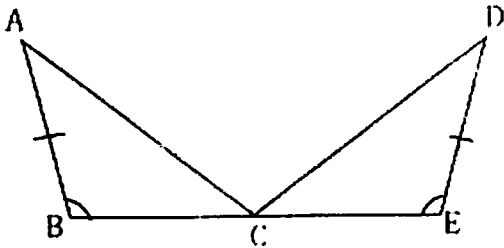
2. Given: \overline{QT} bisects \overline{SP} , \overline{SP} bisects \overline{QT}



Prove: $\triangle QRP \cong \triangle SRT$

Statements	Reasons
1. \overline{QT} bisects \overline{SP}	1. Given
2.	2. Given
3. $\overline{QR} \cong \overline{TR}$	3. Definition of Bisect
4. $\overline{PR} \cong \overline{SR}$	4.
5.	5. Vertical Angles
6. $\triangle QRP \cong \triangle SRT$	6.

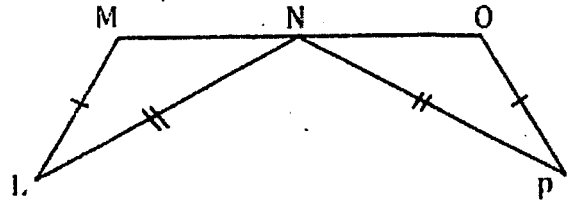
Given: C is the midpoint of \overline{BE} , $\angle B \cong \angle E$, and $\overline{AB} \cong \overline{DE}$



Prove: $\triangle ABC \cong \triangle DEC$

Statements	Reasons
1. $\angle B \cong \angle E$	1.
2. $\overline{AB} \cong \overline{DE}$	2.
3.	3. Given
4.	4. Midpoint
5. $\triangle ABC \cong \triangle DEC$	5. SAS

0. Given: N is the midpoint of \overline{MO} , $\overline{LM} \cong \overline{OP}$, and $\overline{LN} \cong \overline{PN}$



Prove: $\triangle LMN \cong \triangle PON$

Statements	Reasons
1. $\overline{LM} \cong \overline{OP}$	1. Given
2. $\overline{LN} \cong \overline{PN}$	2.
3. N is the Midpoint of \overline{MO}	3. Given
4.	4. Midpoint
5.	5. SSS