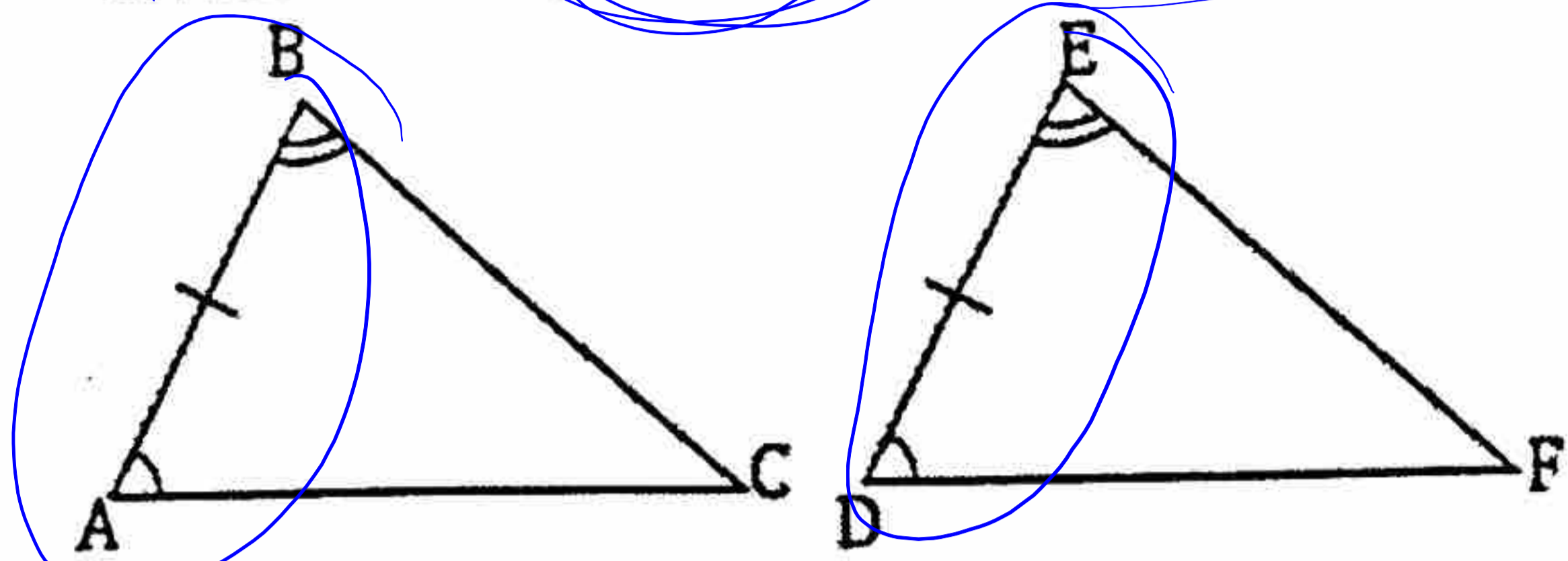


More Practice with Proofs

Fill in any missing statements or reasons.

1.

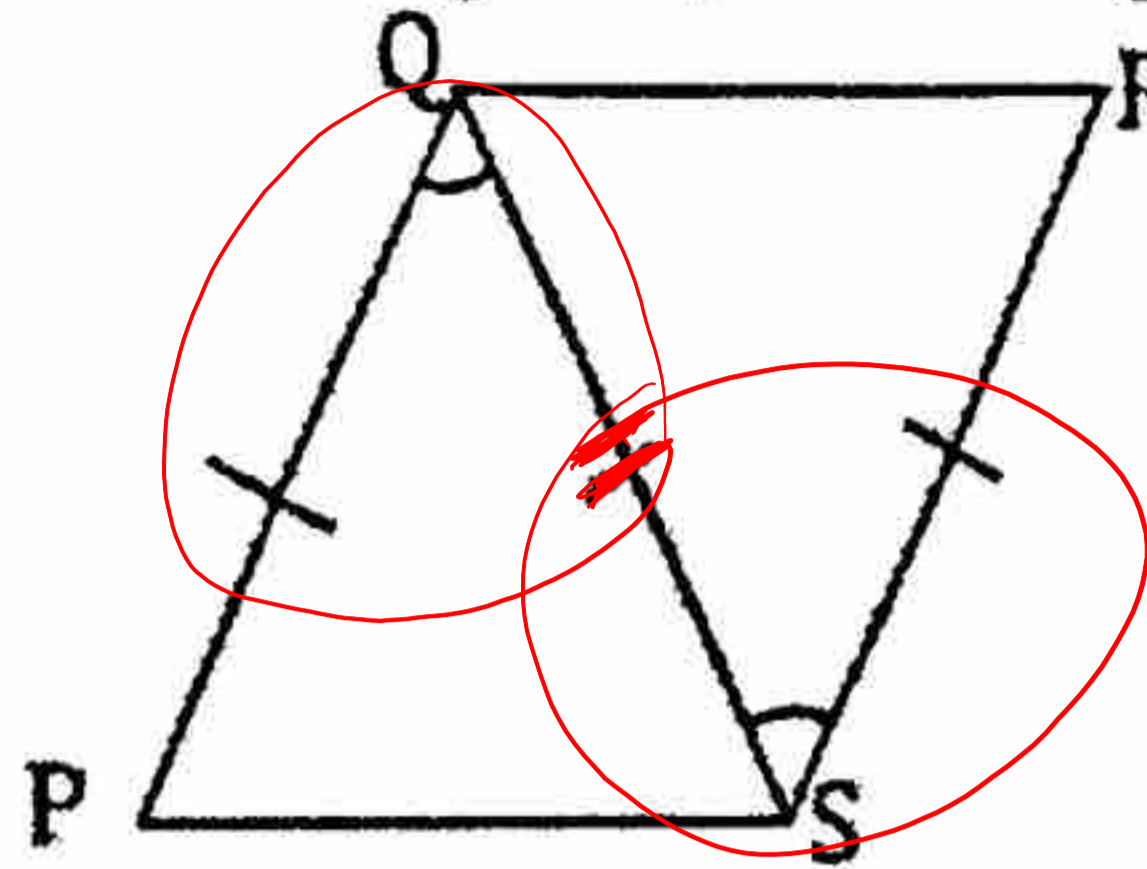
Given: $\overline{AB} \cong \overline{DE}$, $\angle B \cong \angle E$, and $\angle A \cong \angle D$



Prove: $\triangle ABC \cong \triangle DEF$

Statements	Reasons
1. $\overline{AB} \cong \overline{DE}$	1. Given
2. $\angle B \cong \angle E$	2. Given
3. $\angle A \cong \angle D$	3. Given
4. $\triangle ABC \cong \triangle DEF$	4. ASA

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

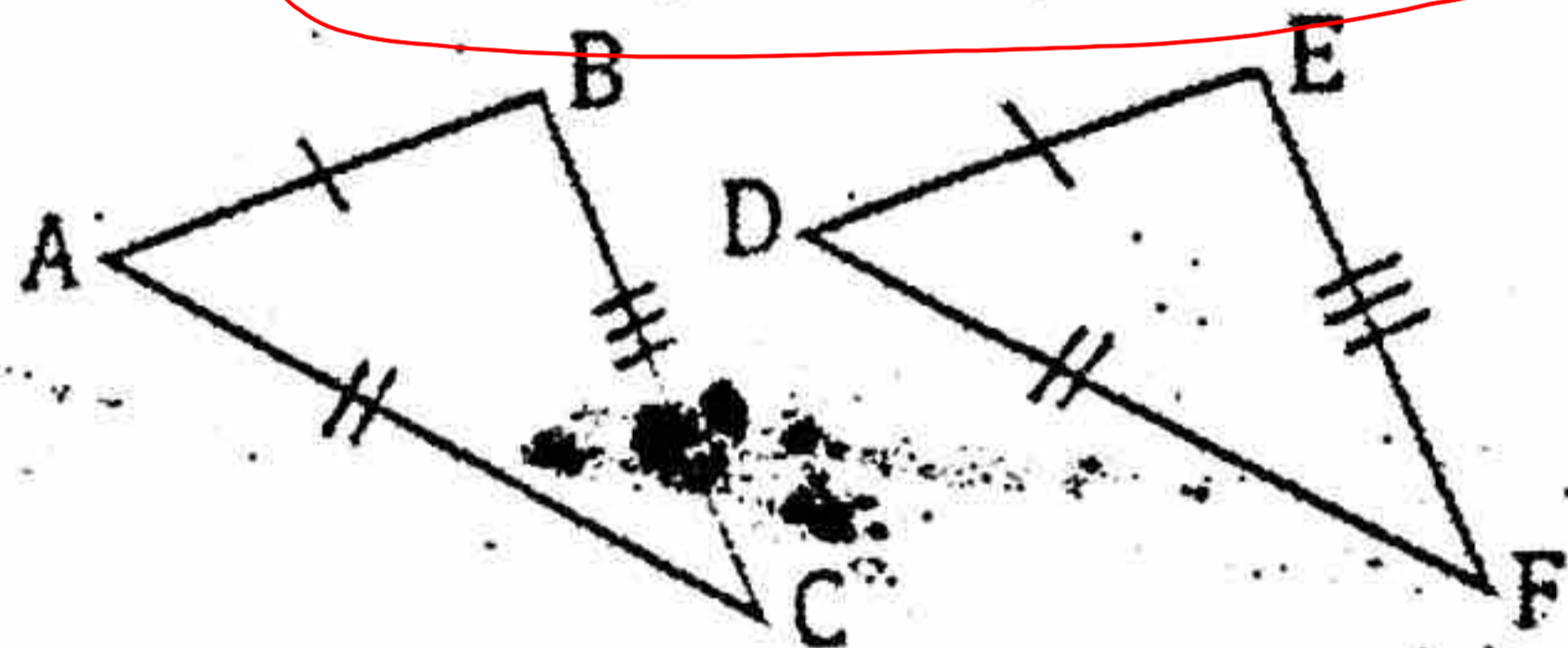


Prove: $\triangle PQS \cong \triangle RSQ$

Statements	Reasons
1. $\overline{PQ} \cong \overline{RS}$	1. Given
2. $\angle PQS \cong \angle RSQ$	2. Given
3. $\overline{QS} \cong \overline{QS}$	3. Reflexive Prop of \cong
4. $\triangle PQS \cong \triangle RSQ$	4. SAS

3.

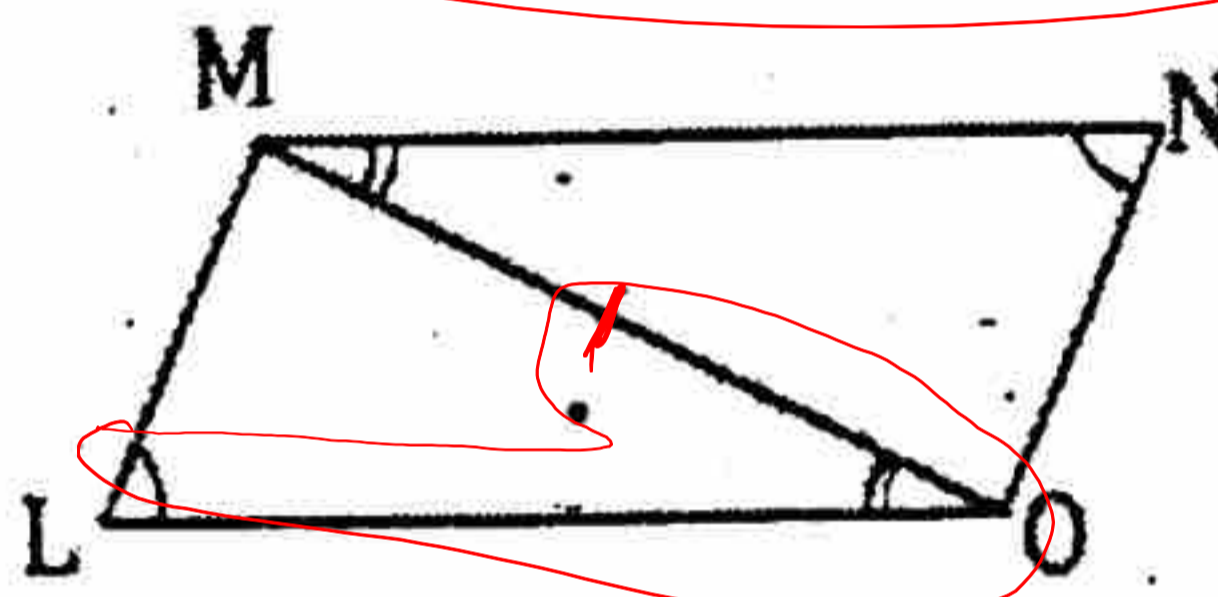
Given: $\overline{AB} \cong \overline{DE}$, $\overline{AC} \cong \overline{DF}$, and $\overline{BC} \cong \overline{EF}$



Prove: $\triangle ABC \cong \triangle DEF$

Statements	Reasons
1. $\overline{AB} \cong \overline{DE}$	1. Given
2. $\overline{AC} \cong \overline{DF}$	2. Given
3. $\overline{BC} \cong \overline{EF}$	3. Given
4. $\triangle ABC \cong \triangle DEF$	4. SSS

4. Given: $\angle L \cong \angle N$, $\angle LOM \cong \angle NMO$

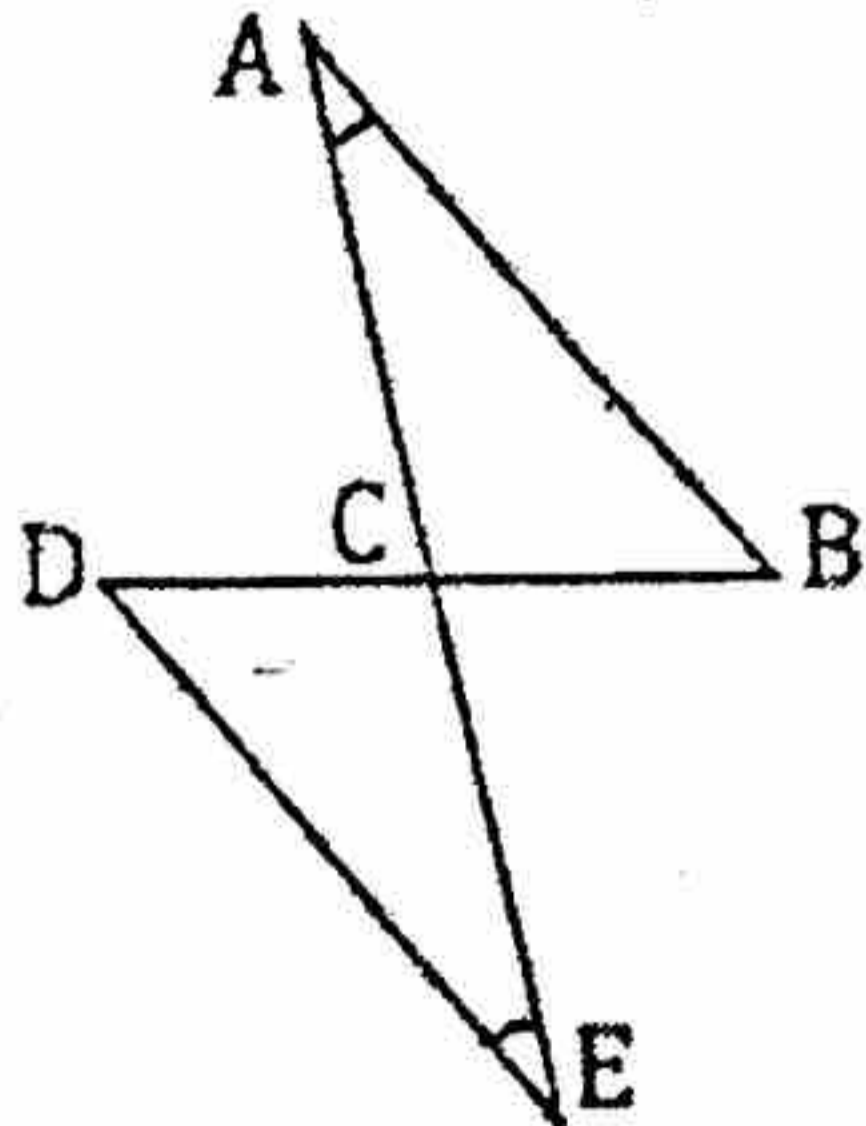


Prove: $\triangle LMO \cong \triangle NMO$

Statements	Reasons
1. $\angle L \cong \angle N$	1. Given
2. $\angle LOM \cong \angle NMO$	2. Given
3. $\overline{MO} \cong \overline{MO}$	3. Reflexive Property
4. $\triangle LMO \cong \triangle NMO$	4. AAS

5.

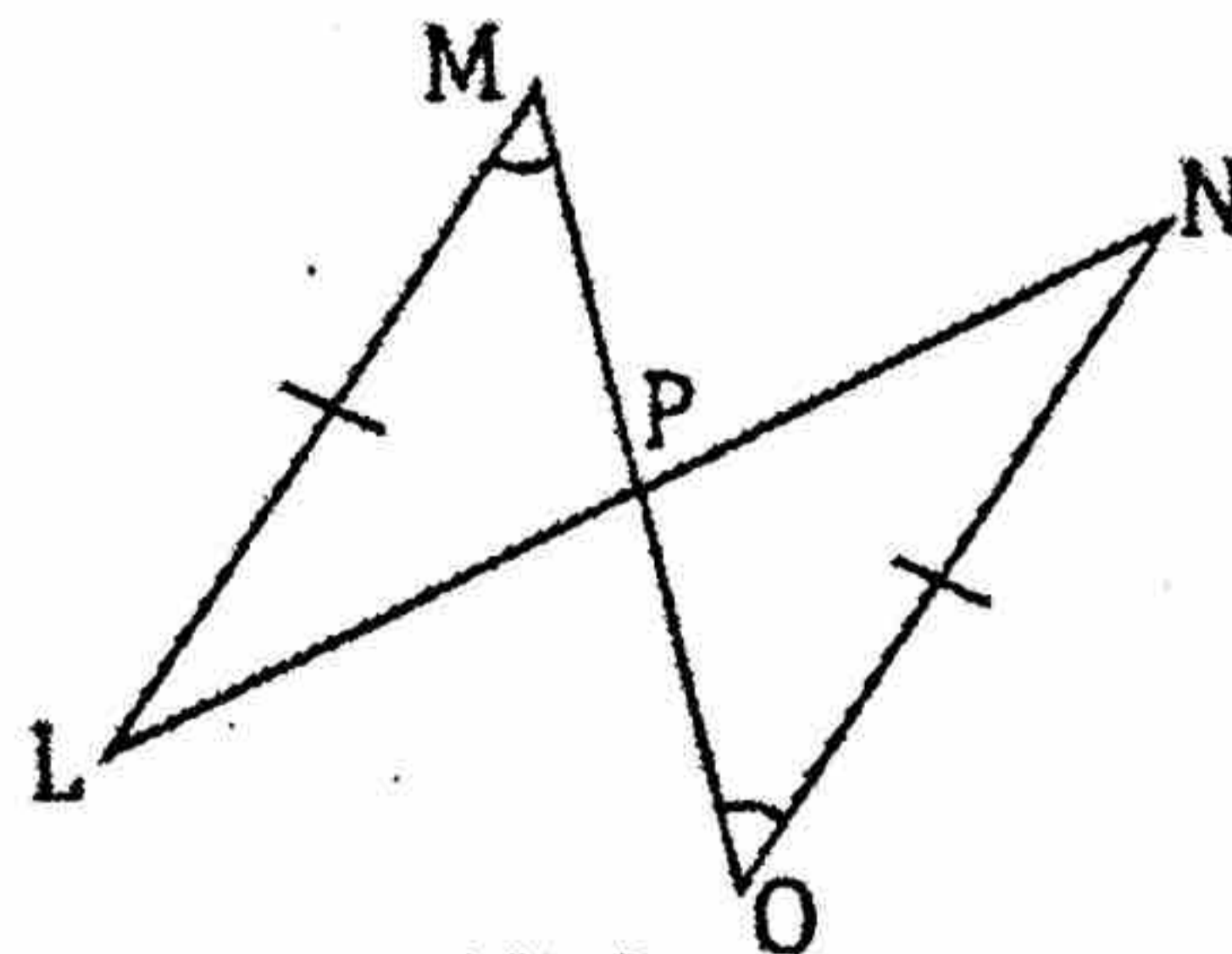
Given: \overline{AE} bisects \overline{BD} , $\angle A \cong \angle E$



Prove: $\triangle ABC \cong \triangle EDC$

Statements	Reasons
1. $\angle A \cong \angle E$	1. Given
2. $\overline{AC} \cong \overline{EC}$	2. Given
3. $\angle ACB \cong \angle DCE$	3. Definition of Bisect
4. $\triangle ABC \cong \triangle EDC$	4. ASA

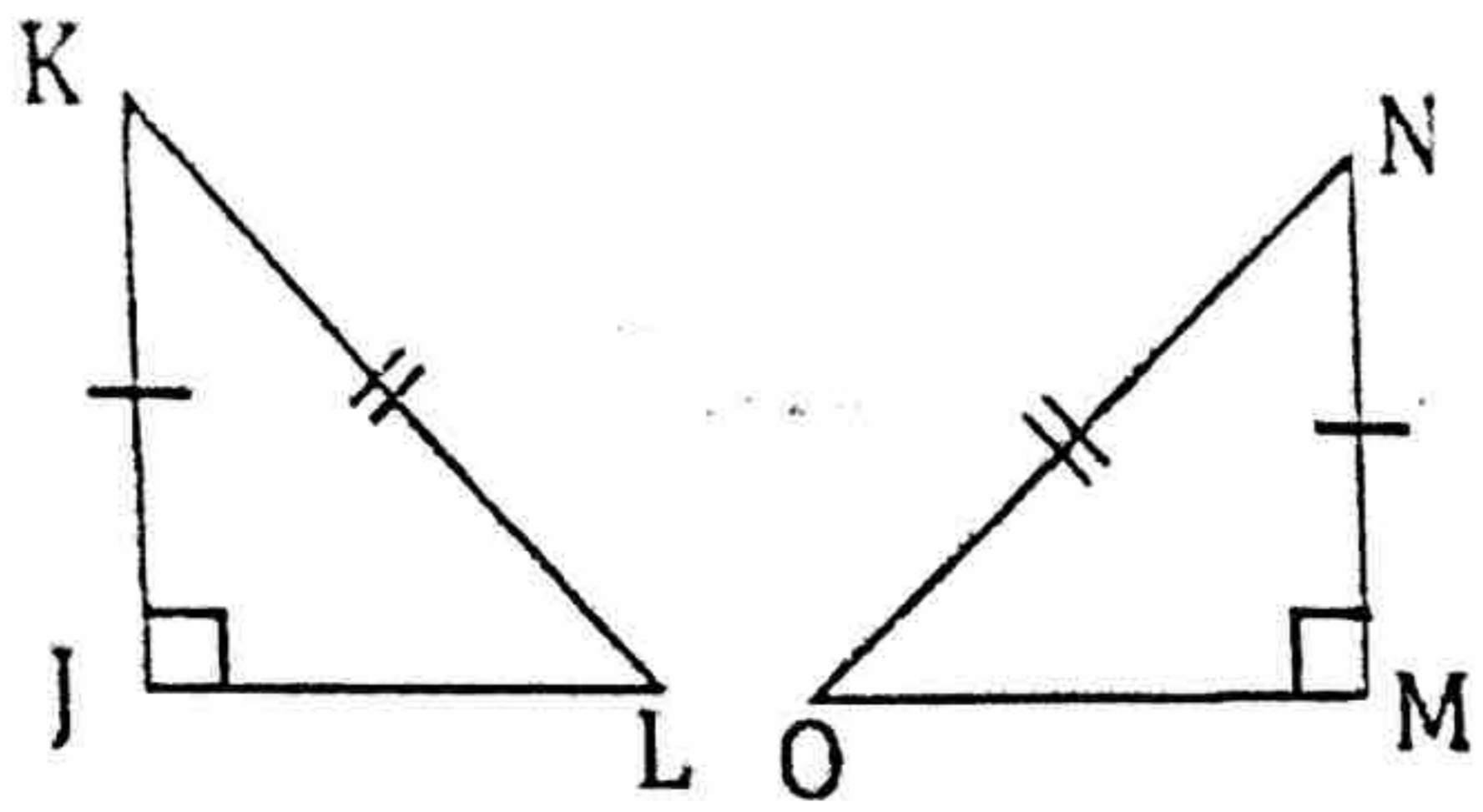
7. Given: $\overline{LM} \cong \overline{NO}$, and $\angle M \cong \angle O$



Prove: $\triangle MPL \cong \triangle NPO$

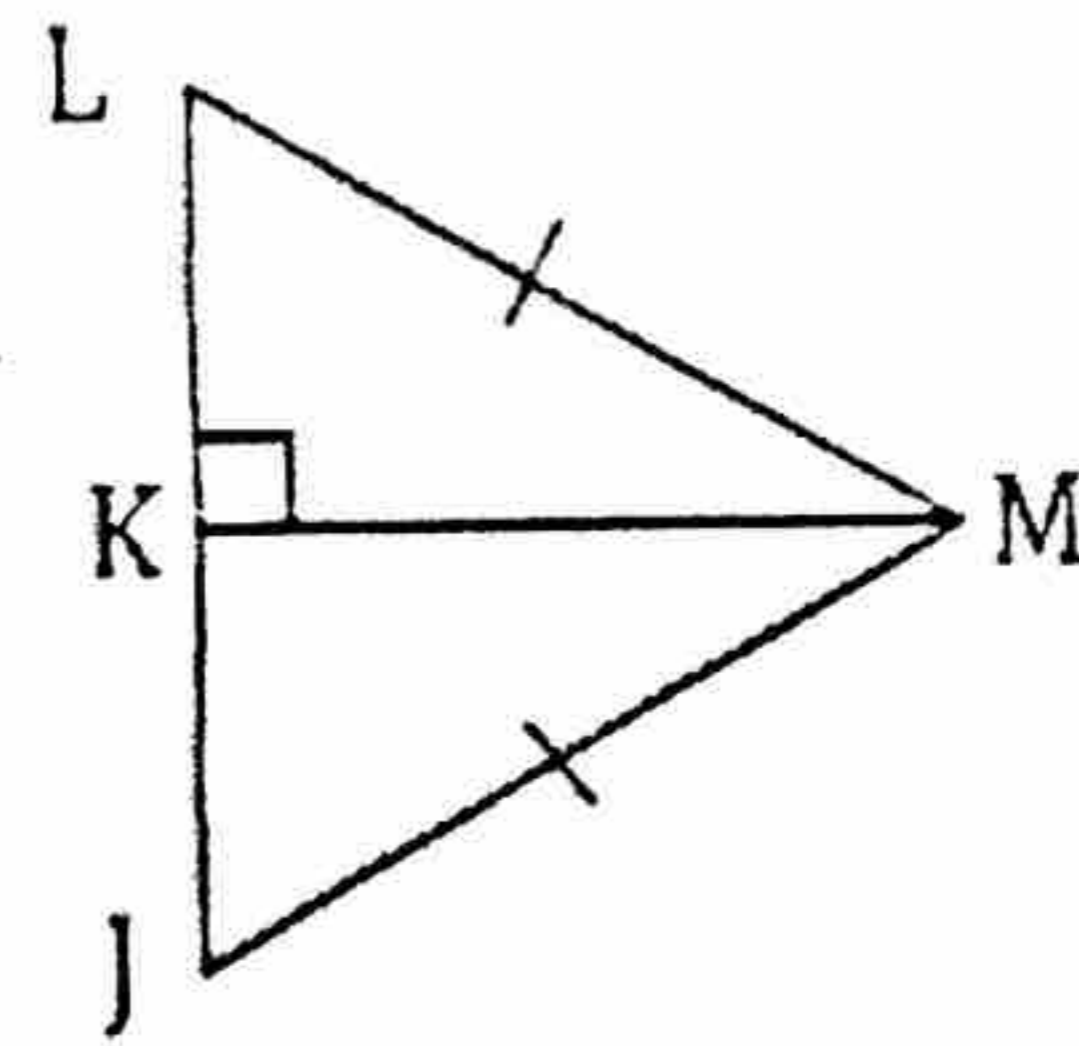
Statements	Reasons
1. $\overline{LM} \cong \overline{NO}$	1. Given
2. $\angle M \cong \angle O$	2. Given
3. $\angle LPM \cong \angle NPO$	3. Vertical Angles
4. $\triangle MPL \cong \triangle NPO$	4. AAS

Given: $JK \cong MN, KL \cong NO$



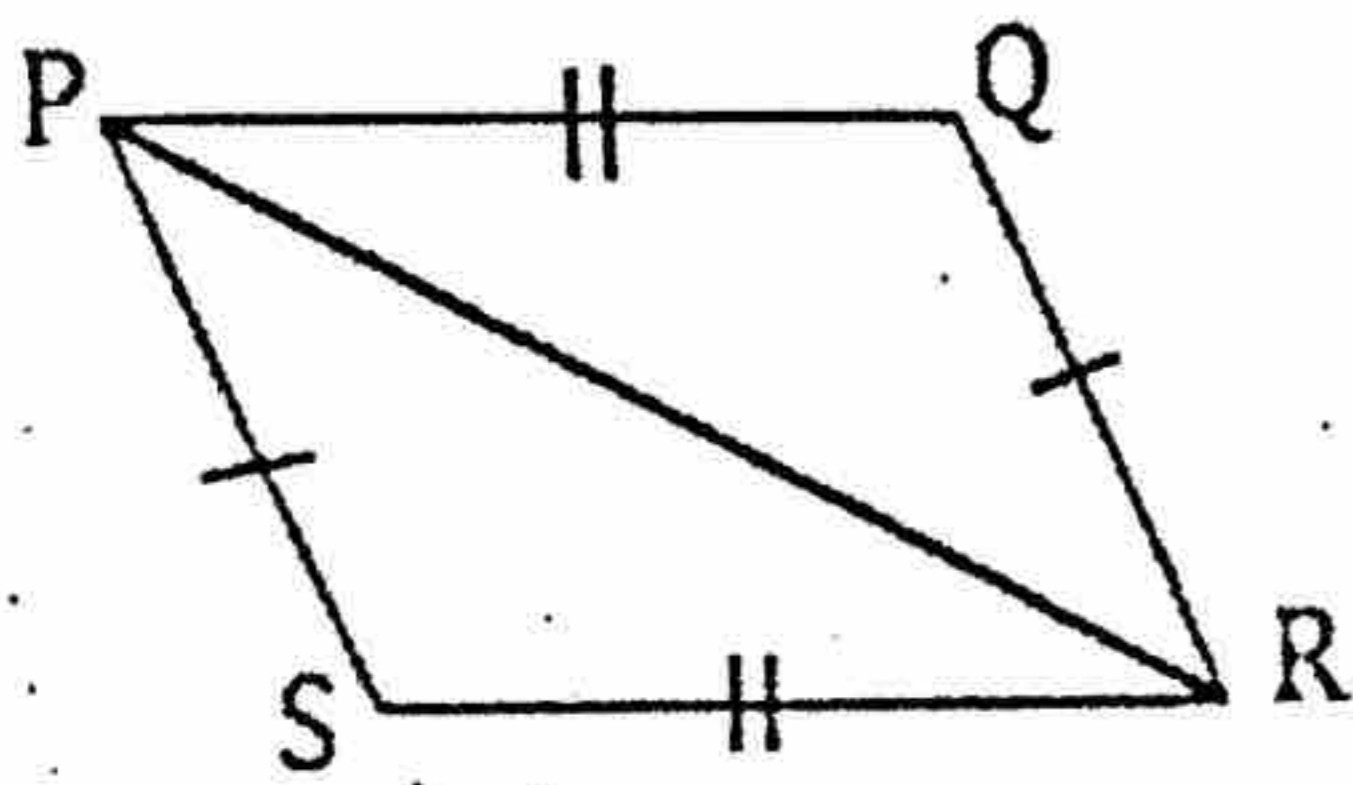
Prove: $\triangle JKL \cong \triangle MNO$

Given: $\overline{LM} \cong \overline{JM}$



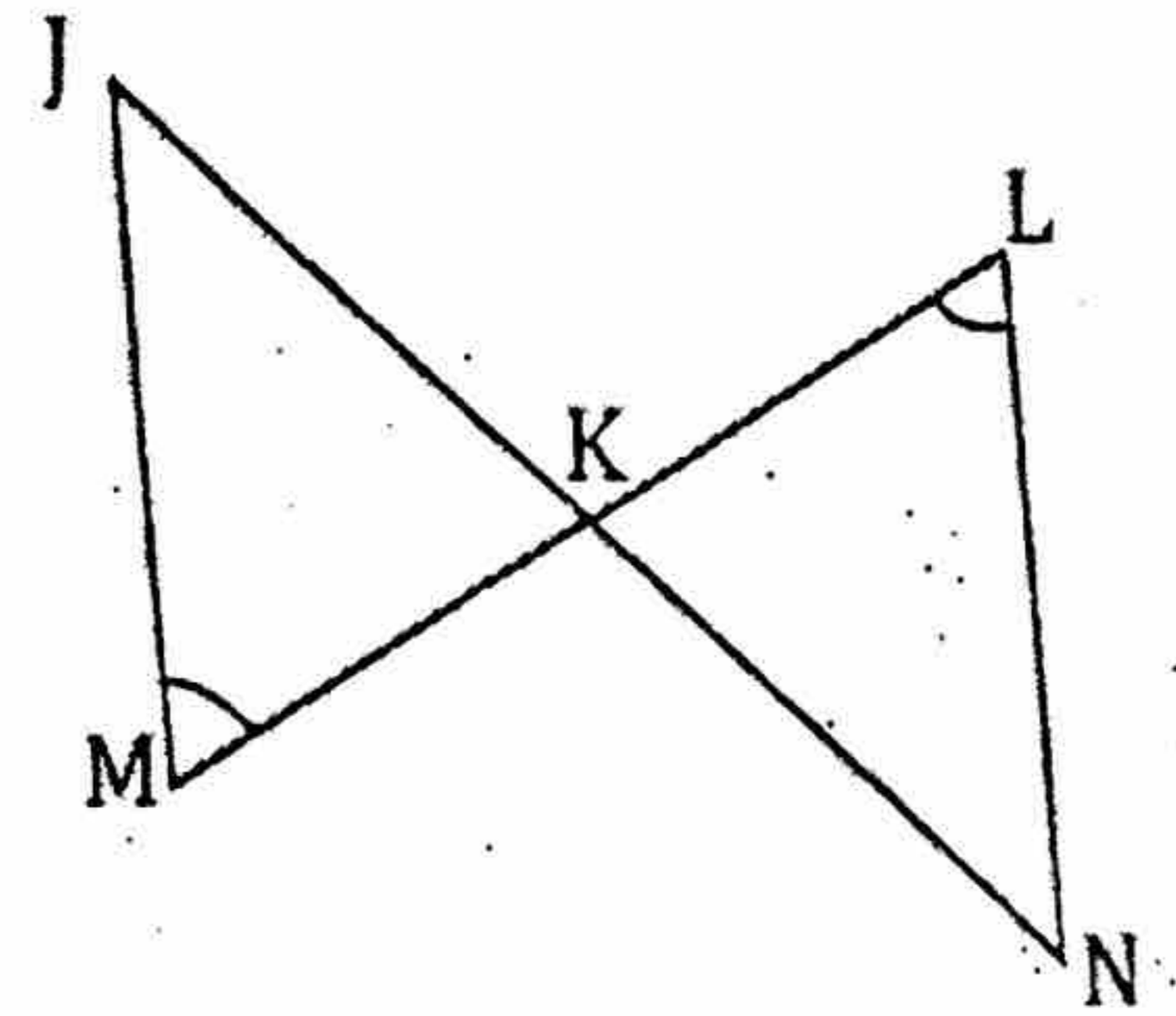
Prove: $\triangle LKM \cong \triangle JKM$

Given: $\overline{PS} \cong \overline{QR}, \overline{PQ} \cong \overline{SR}$



Prove: $\triangle PRS \cong \triangle RPQ$

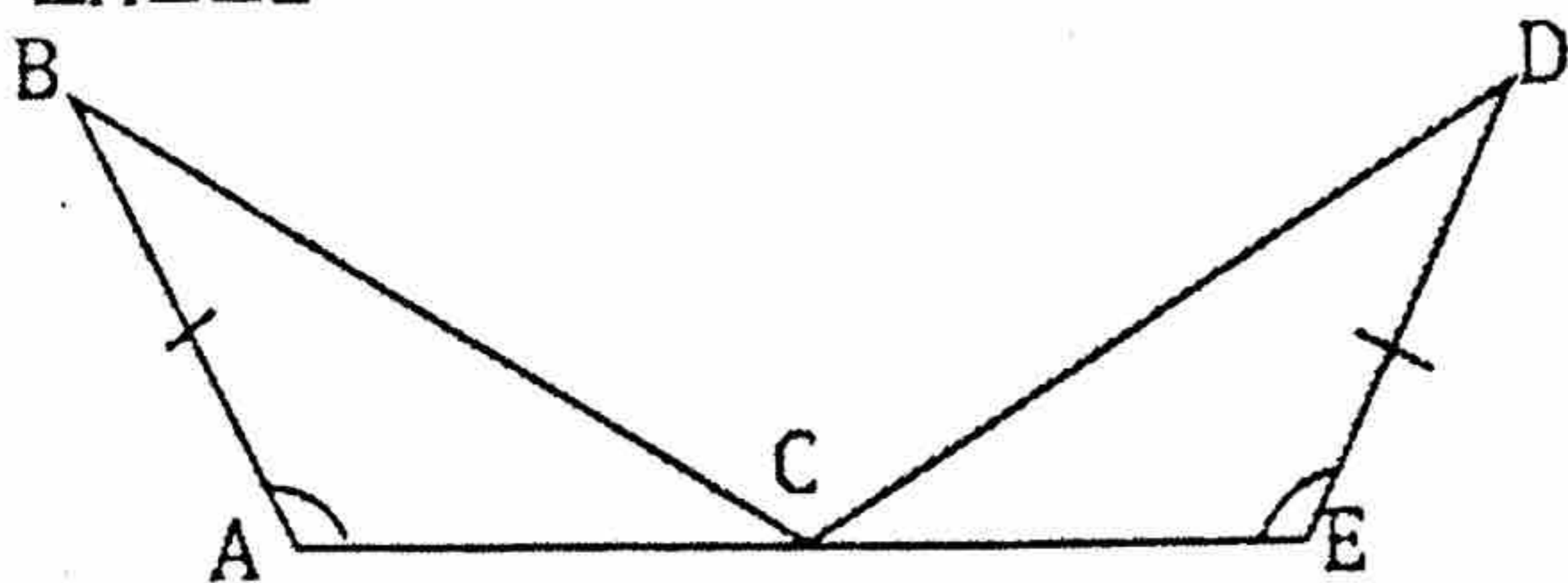
Given: \overline{JN} Bisects $\overline{ML}, \angle M \cong \angle L$



Prove: $\triangle MJK \cong \triangle LNK$

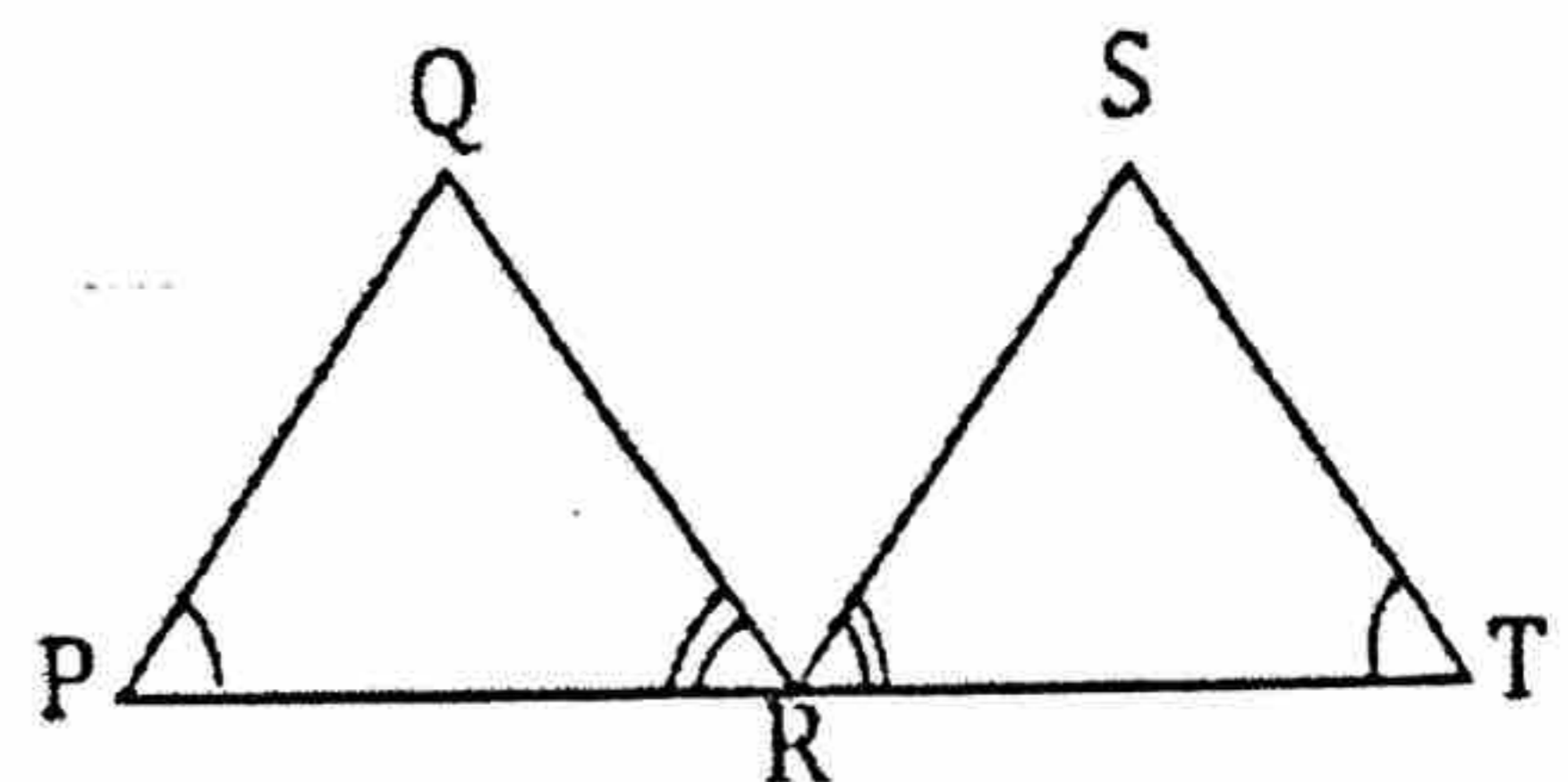
$$\angle J = \angle N$$

Given: C is the midpoint of $\overline{AE}, \overline{BA} \cong \overline{DE},$ and $\angle A \cong \angle E$



Prove: $\triangle ABC \cong \triangle EDC$

Given: R is the midpoint of $\overline{PT}, \angle P \cong \angle T,$ and $\angle PRQ \cong \angle TRS$



Prove: $\triangle PQR \cong \triangle TSR$