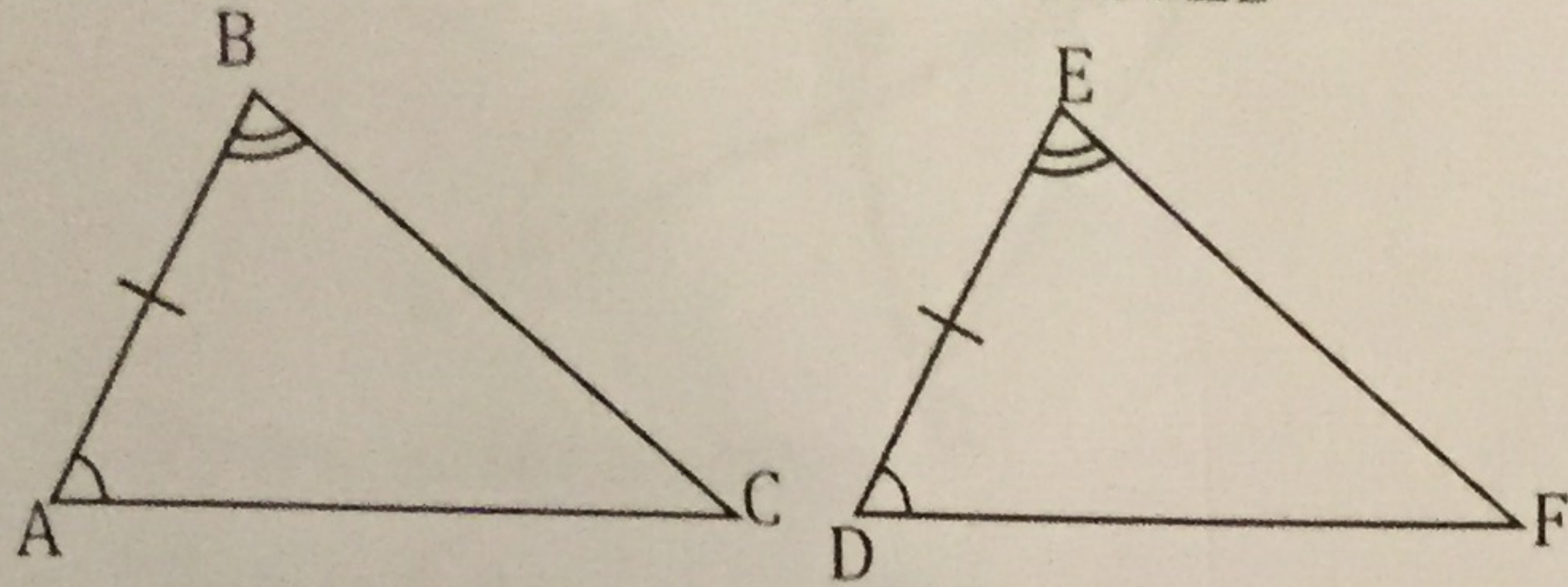


For these fill in any missing statements or reasons.

1.

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

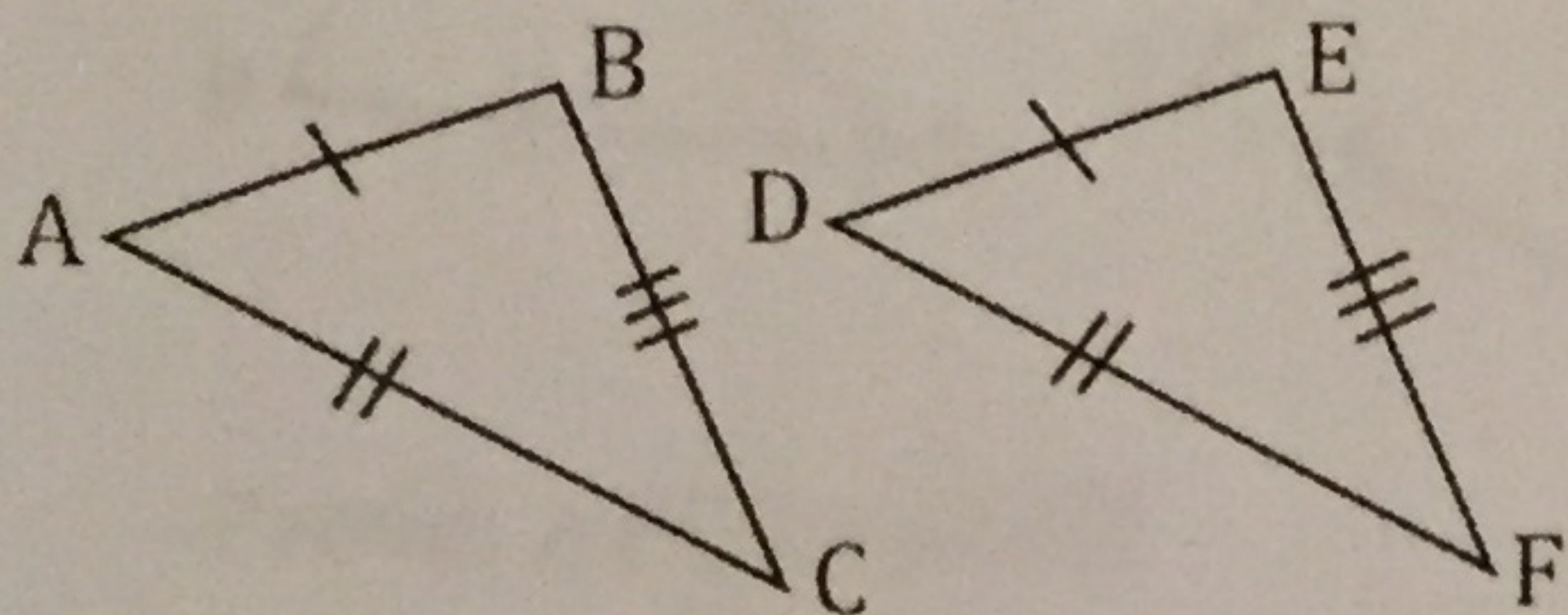


Prove: $\triangle ABC \cong \triangle DEF$

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

3.

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

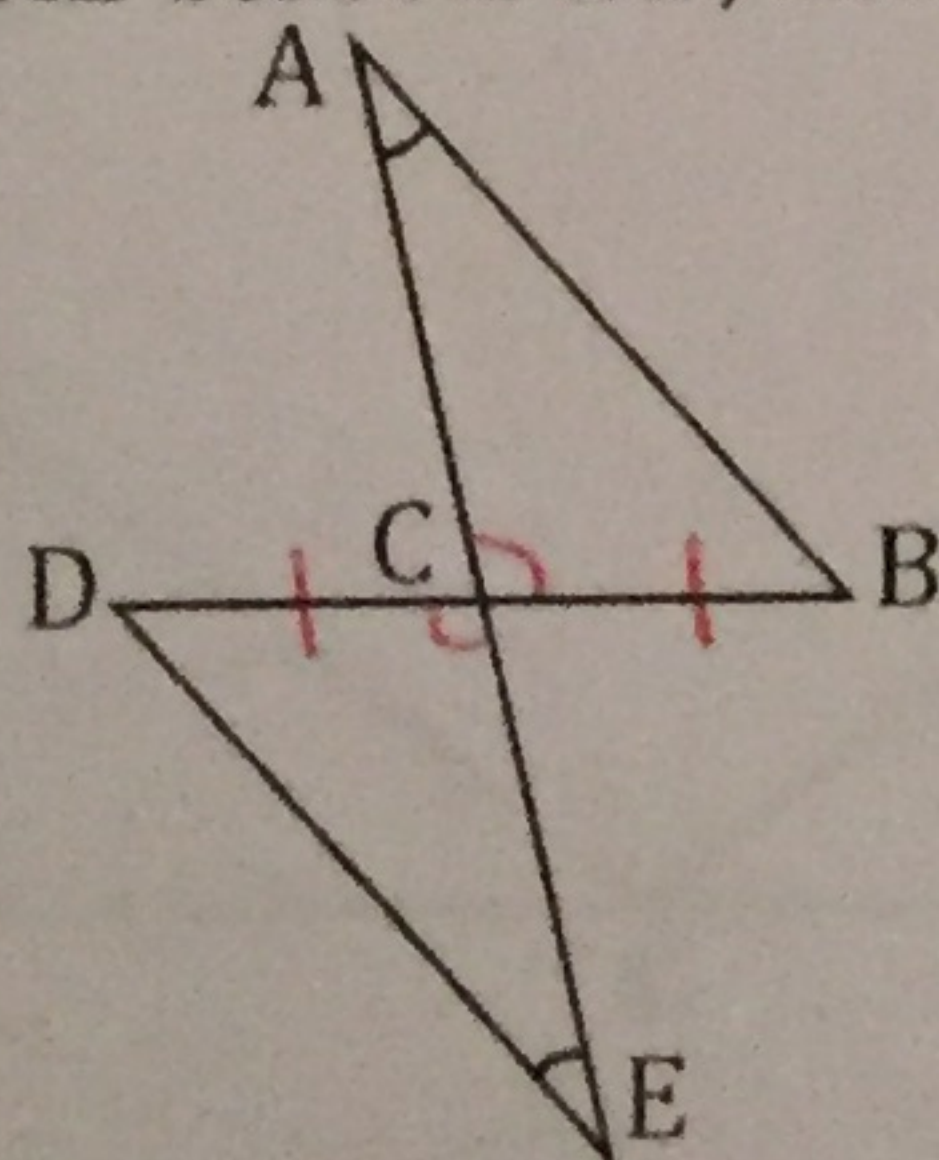


Prove: $\triangle ABC \cong \triangle DEF$

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

5.

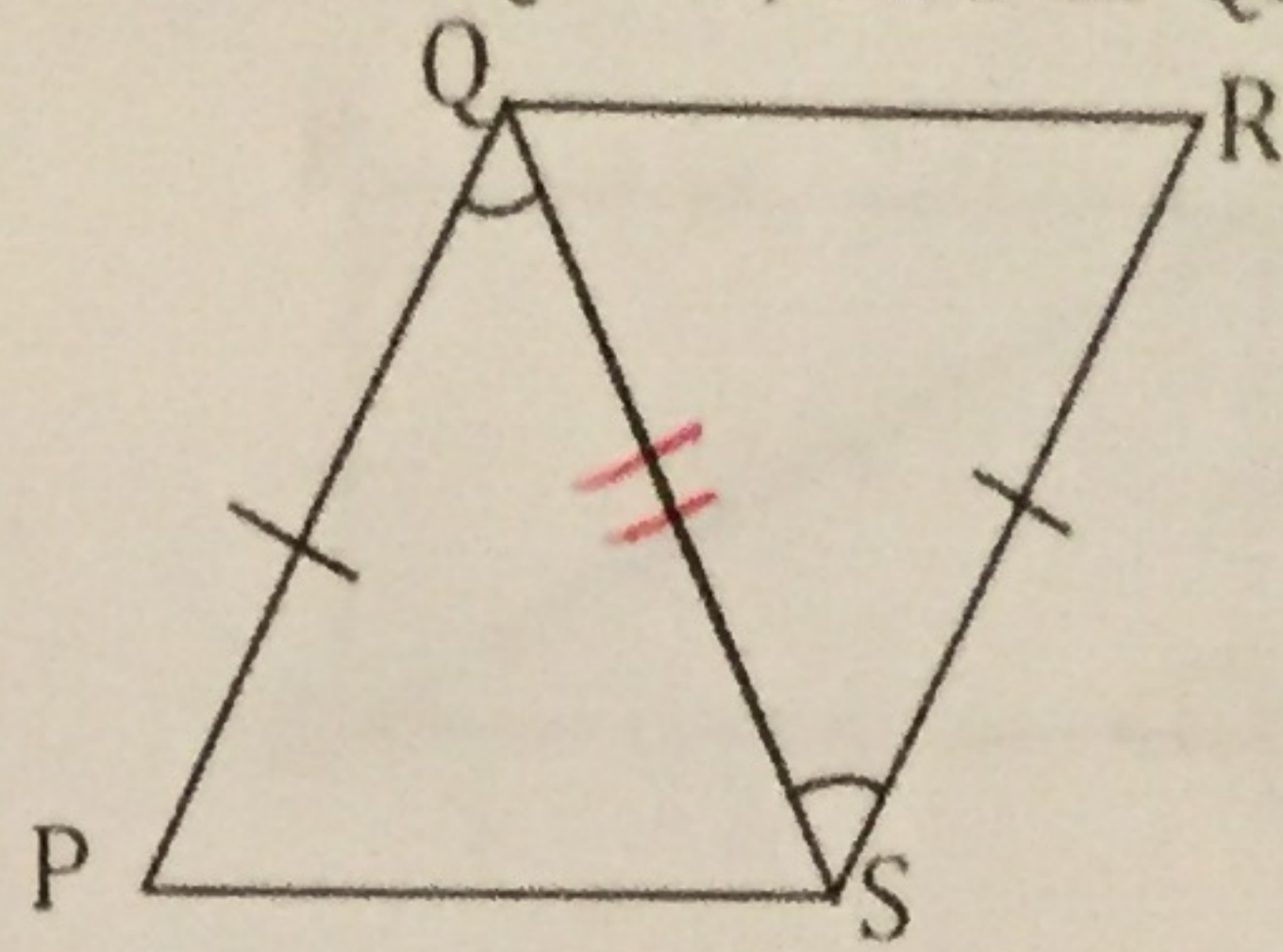
Given: \overline{AE} bisects \overline{BD} , $\angle A \cong \angle E$



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

Statements	Reasons
1. $\angle A \cong \angle E$	1. Given
2. \overline{AE} bis. \overline{BD}	2. Given
3. $\overline{DC} \cong \overline{CB}$	3. Definition of Bisect
4. $\angle ACB \cong \angle DCE$	4. Vert. \angle s Thm
5. $\triangle ABC \cong \triangle EDC$	5. ASA

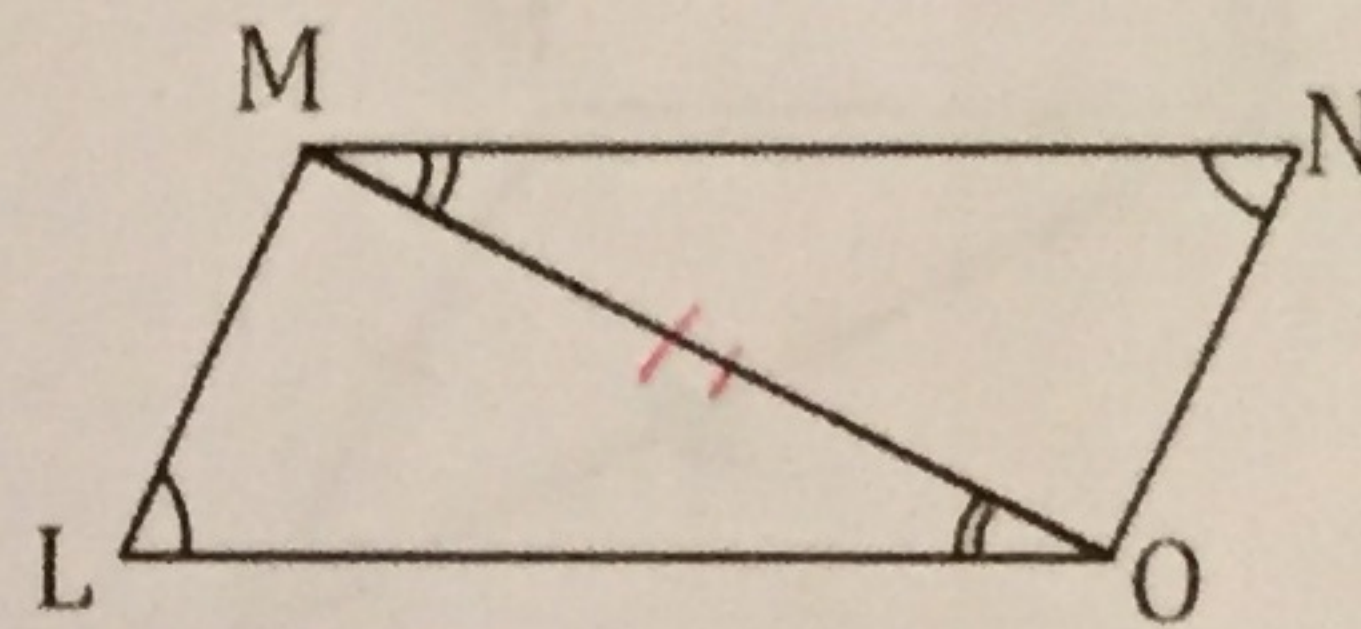
2. Given: $\overline{PQ} \cong \overline{RS}$, and $\angle PQS \cong \angle RSQ$



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
4. $\triangle PQS \cong \triangle RSQ$	4. SAS

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

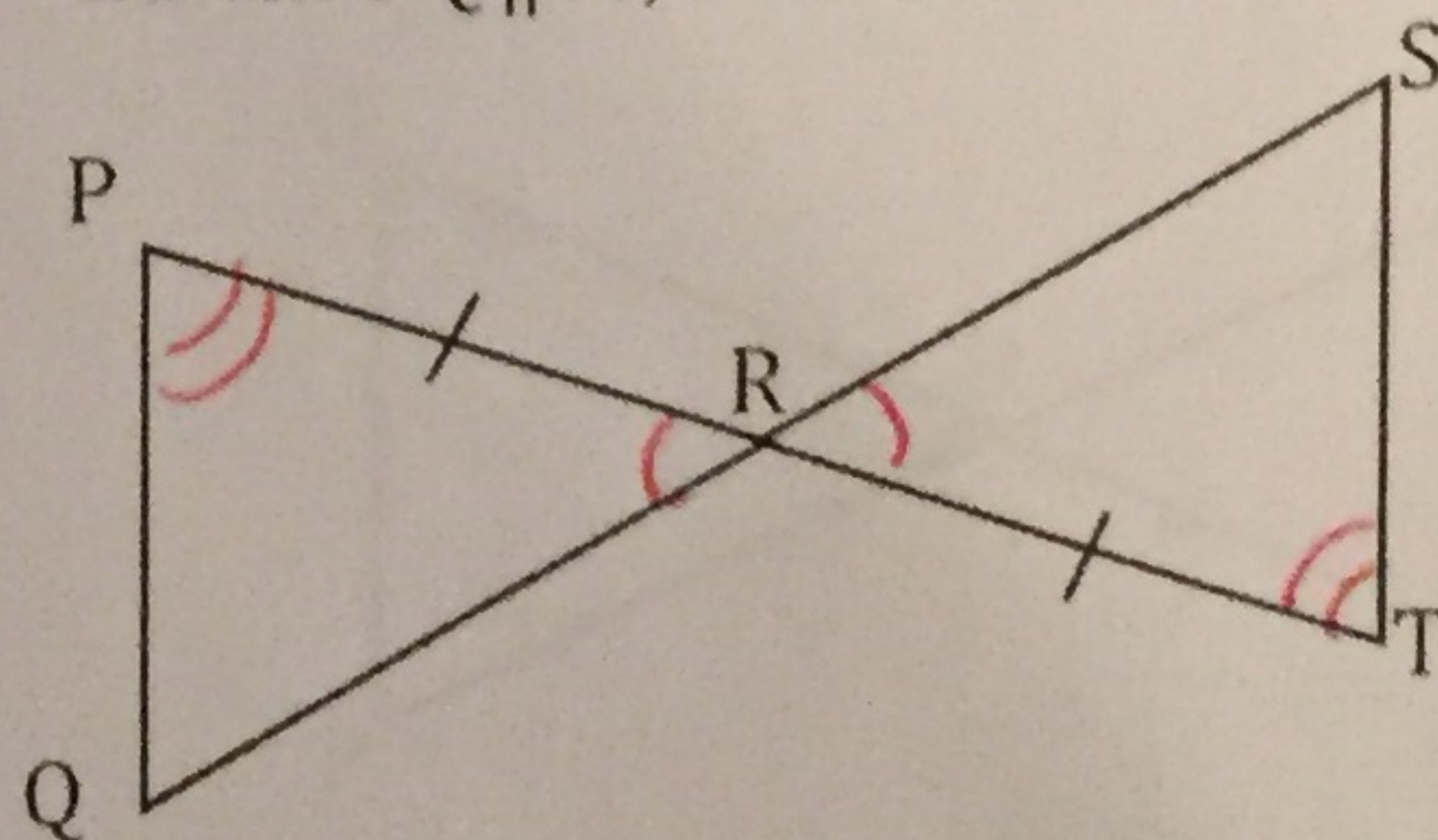


Prove: $\triangle LMO \cong \triangle NOM$

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. $\triangle LMO \cong \triangle NOM$	4. AAS

6.

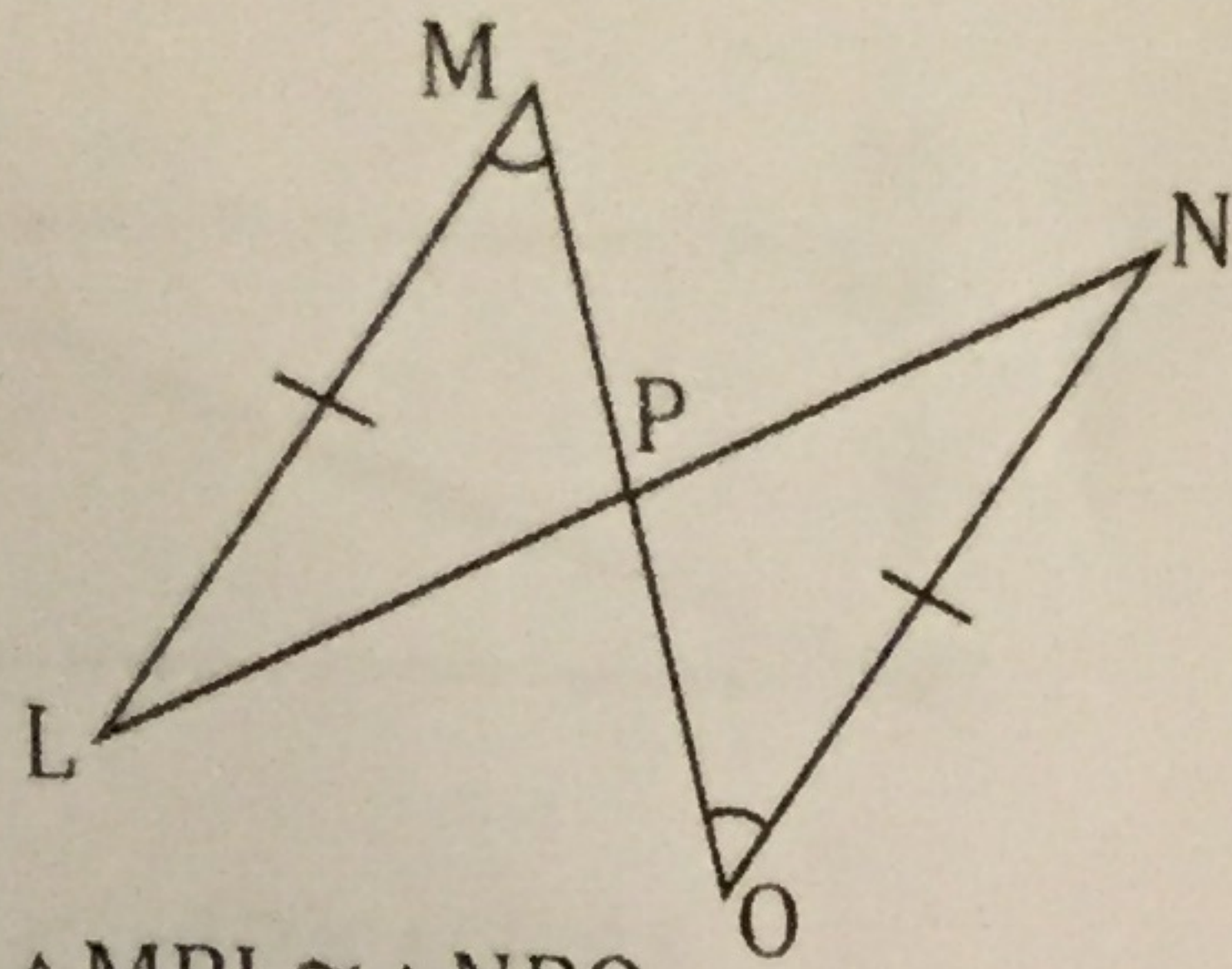
Given: $\overline{PQ} \parallel \overline{ST}$, $\overline{PR} \cong \overline{TR}$



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

Statements	Reasons
1. $\overline{PR} \cong \overline{TR}$	1. Given
2. $\overline{PQ} \parallel \overline{ST}$	2. Given
3. $\angle P \cong \angle T$	3. Alt. Int \angle s Thm
4. $\angle ACB \cong \angle DCE$	4. Vert. \angle s Thm
5. $\triangle PQR \cong \triangle TSR$	5. ASA

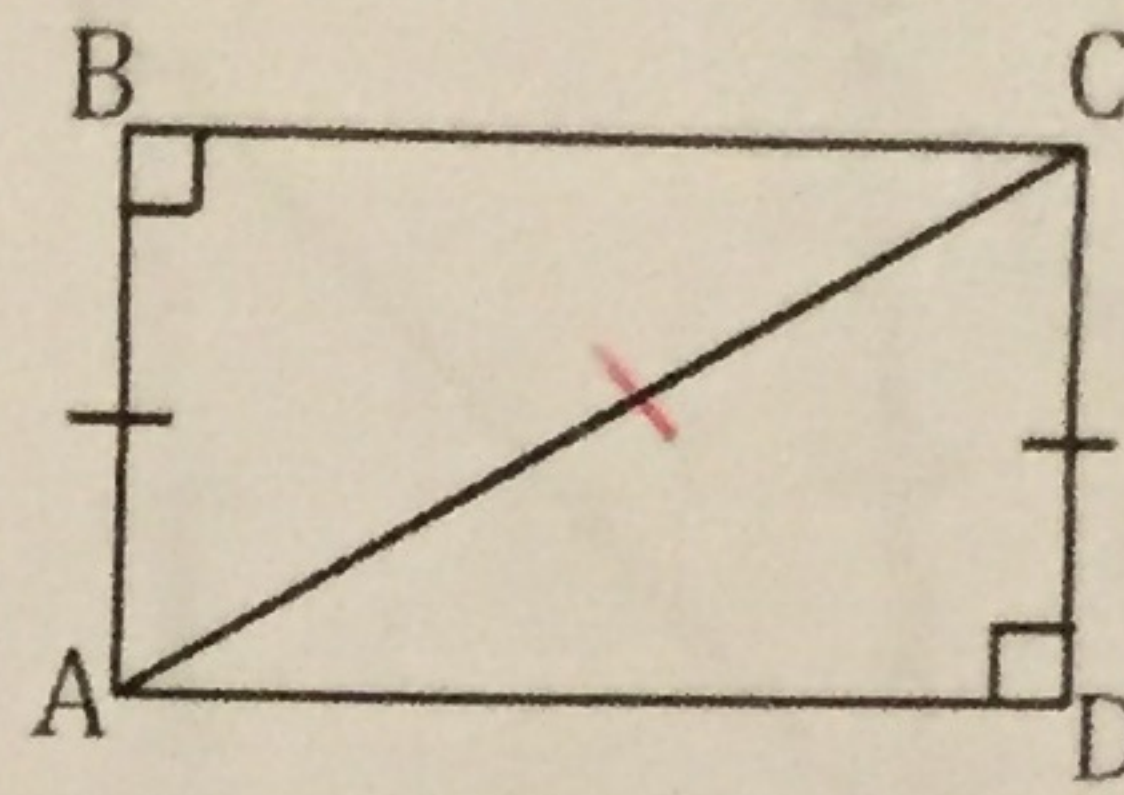
7. Given: $\overline{LM} \cong \overline{NO}$, and $\angle M \cong \angle O$



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. $\angle MPL \cong \angle OPN$	3. Vert. \angle Thm
4. $\triangle MPL \cong \triangle NPO$	4. AAS

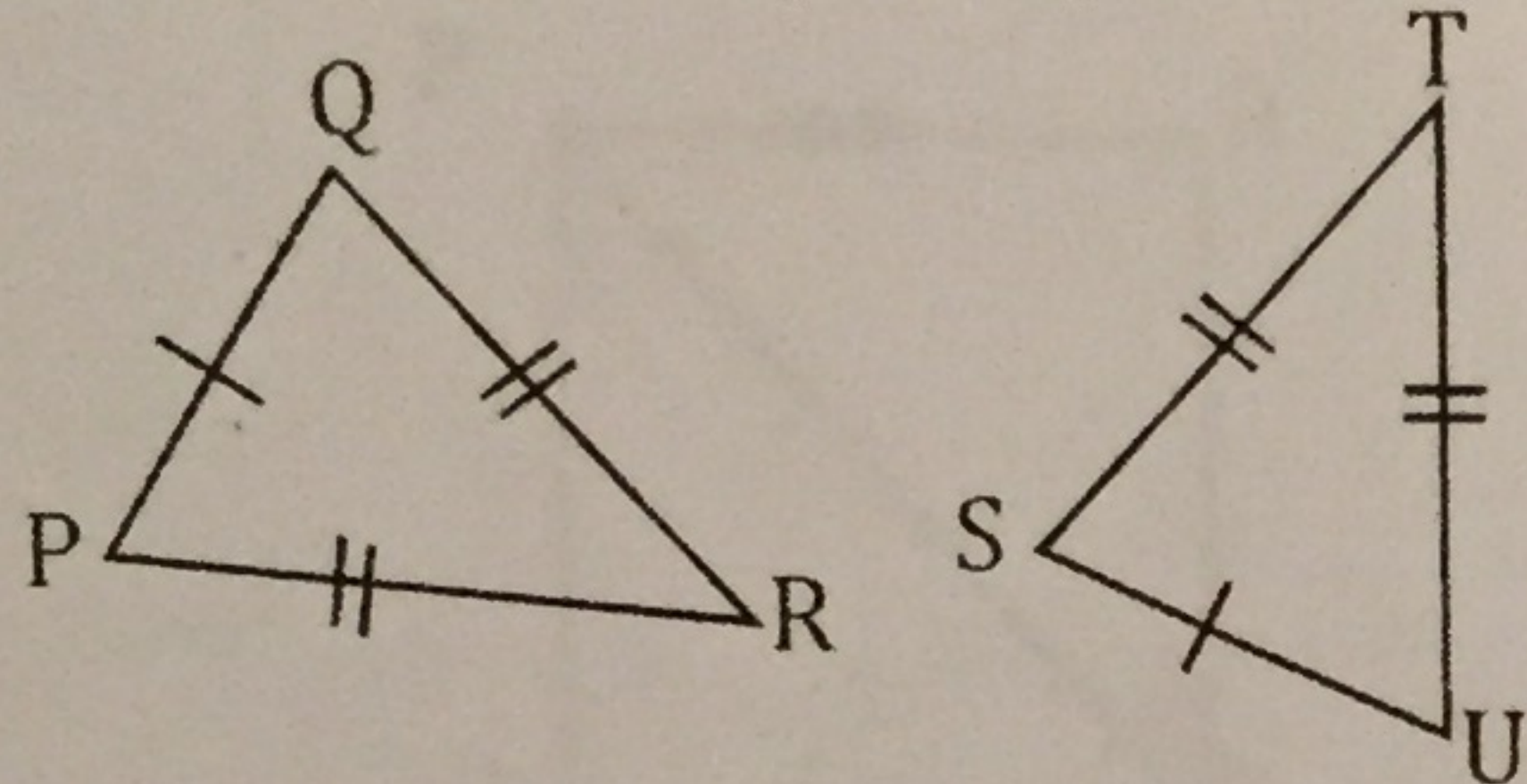
8. Given: $\overline{AB} \cong \overline{DC}$



Prove: $\triangle ABC \cong \triangle CDA$

Statements	Reasons
1. $\overline{AB} \cong \overline{DC}$	1. Given
2. $\overline{AC} \cong \overline{AC}$	2. Reflexive
3. $\triangle ABC \cong \triangle CDA$	3. HL

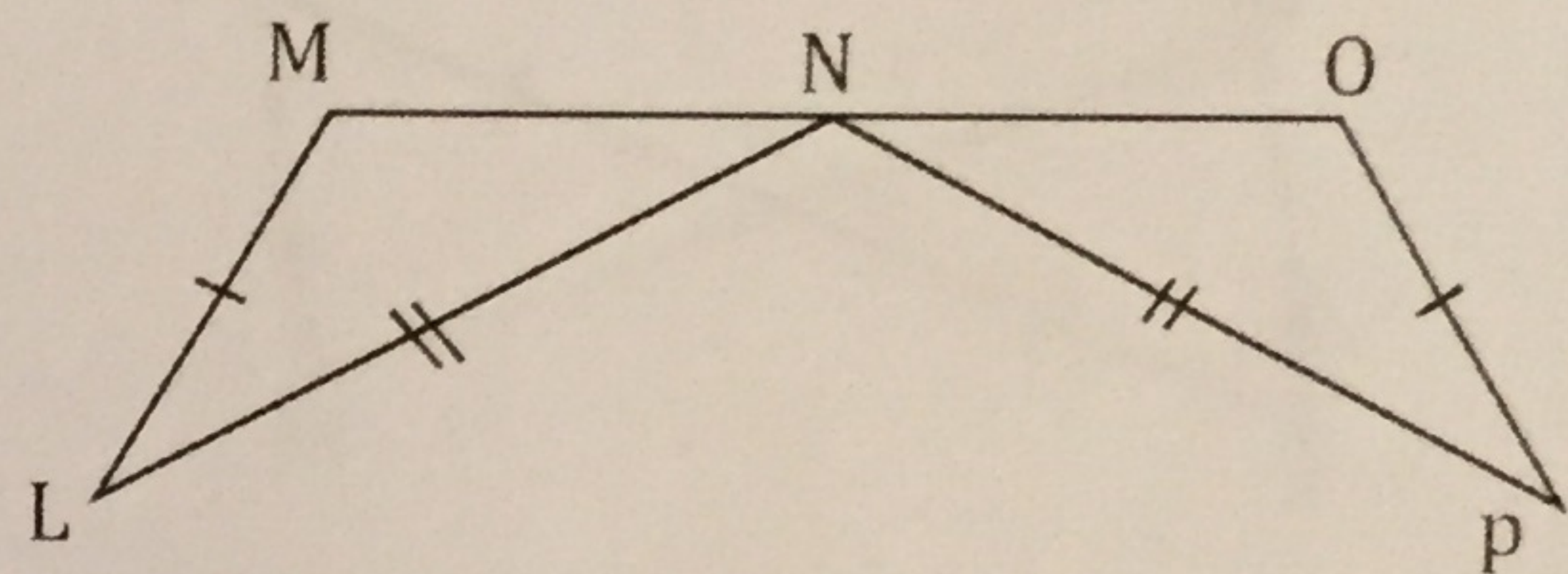
9. Given: $\overline{PQ} \cong \overline{SU}$, $\overline{QR} \cong \overline{ST}$, and $\overline{PR} \cong \overline{TU}$



Prove: $\triangle PQR \cong \triangle STU$

Statements	Reasons
1. $\overline{PQ} \cong \overline{SU}$	1. Given
2. $\overline{QR} \cong \overline{ST}$	2. Given
3. $\overline{PR} \cong \overline{TU}$	3. Given
4. $\triangle PQR \cong \triangle STU$	4. SSS

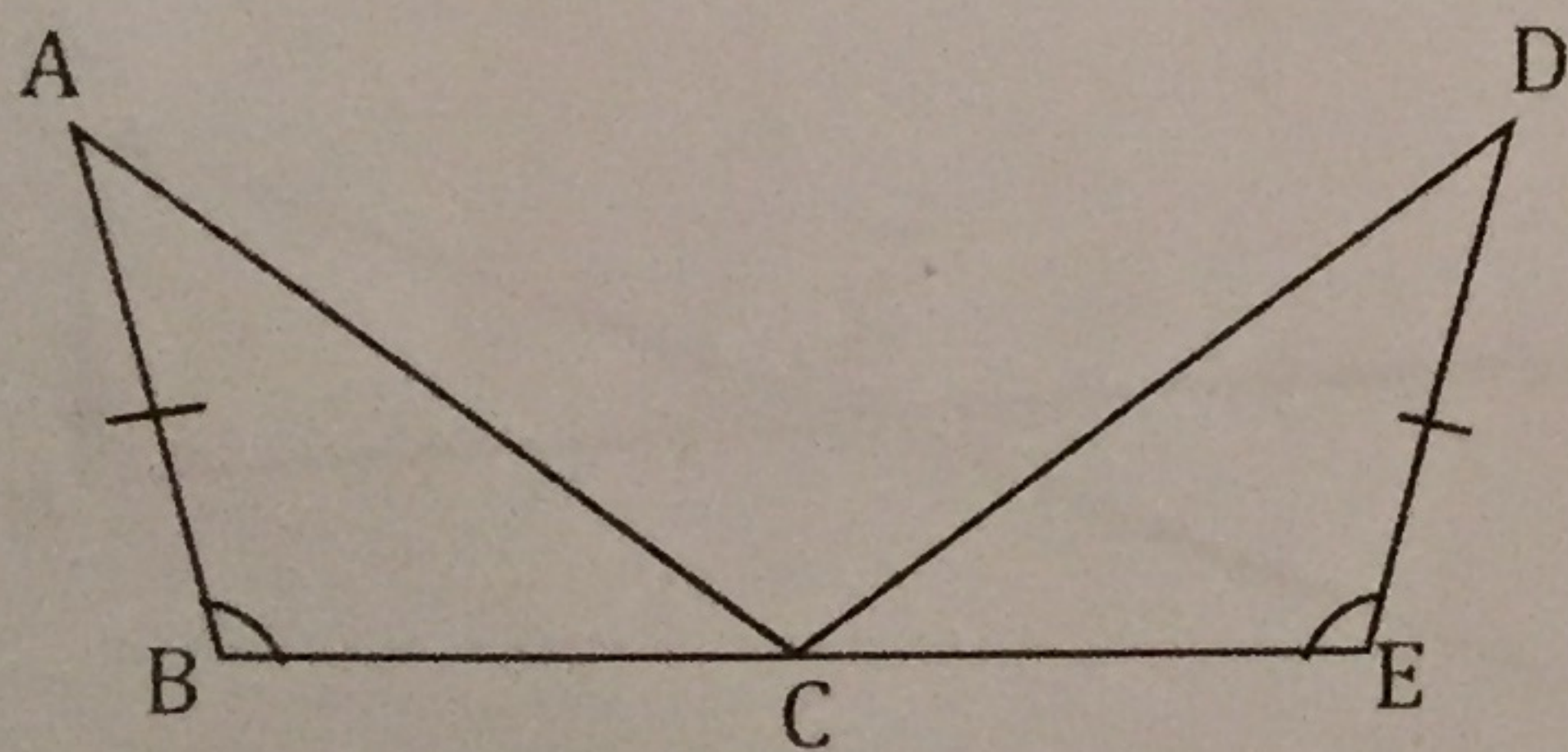
10. Given: N is the midpoint of \overline{MO} , $\overline{LM} \cong \overline{OP}$, and $\overline{LN} \cong \overline{PN}$



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

Statements	Reasons
1. $\overline{LM} \cong \overline{OP}$	1. Given
2. $\overline{LN} \cong \overline{PN}$	2. Given
3. N is the Midpoint of \overline{MO}	3. Given
4. $\overline{MN} \cong \overline{NO}$	4. Midpoint
5. $\triangle LMN \cong \triangle PON$	5. SSS

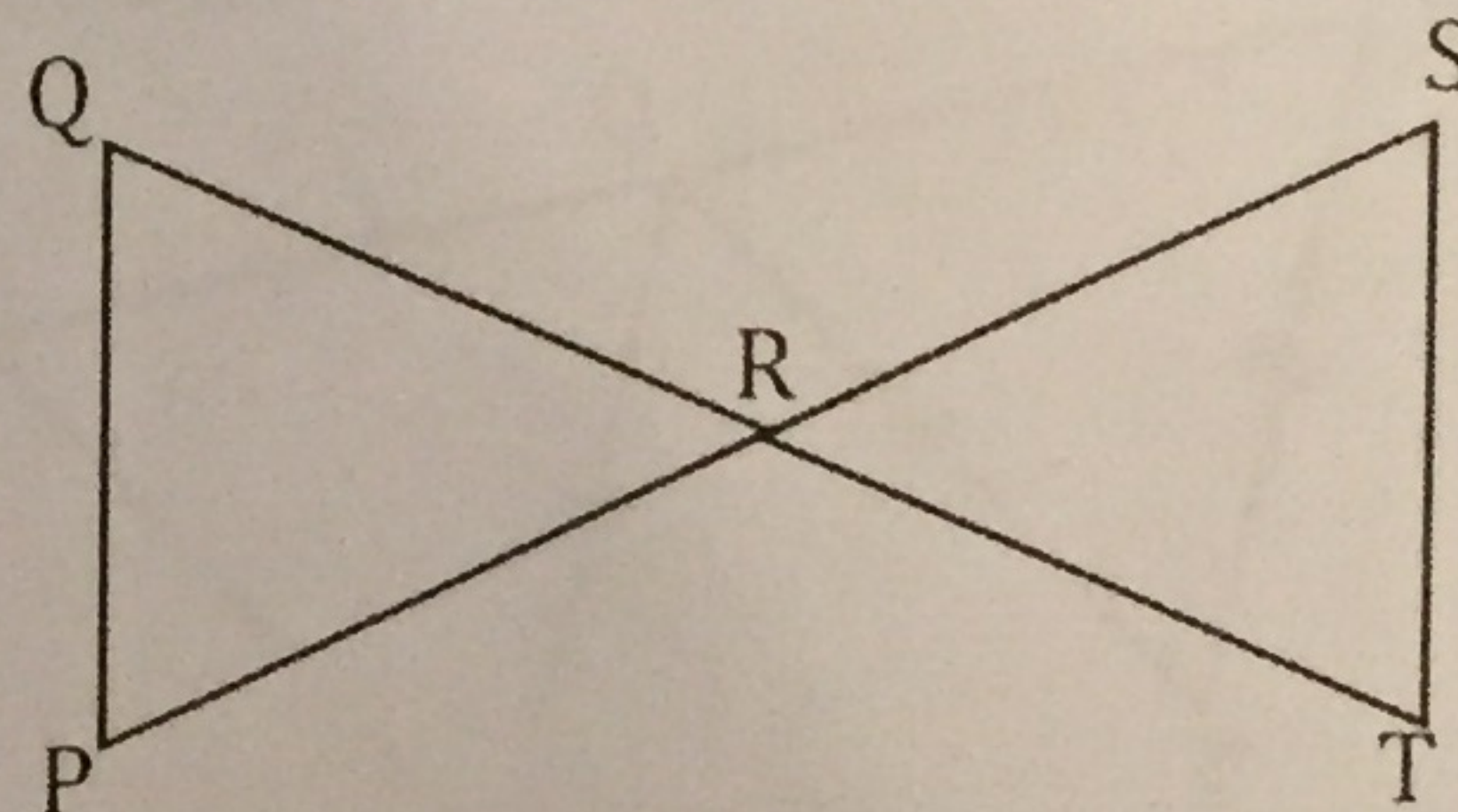
11. Given: C is the midpoint of \overline{BE} , $\angle B \cong \angle E$, and $\overline{AB} \cong \overline{DE}$



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

Statements	Reasons
1. $\angle B \cong \angle E$	1. Given
2. $\overline{AB} \cong \overline{DE}$	2. Given
3. C is mid. of \overline{BE}	3. Given
4. $\overline{BC} \cong \overline{CE}$	4. Midpoint
5. $\triangle ABC \cong \triangle DEC$	5. SAS

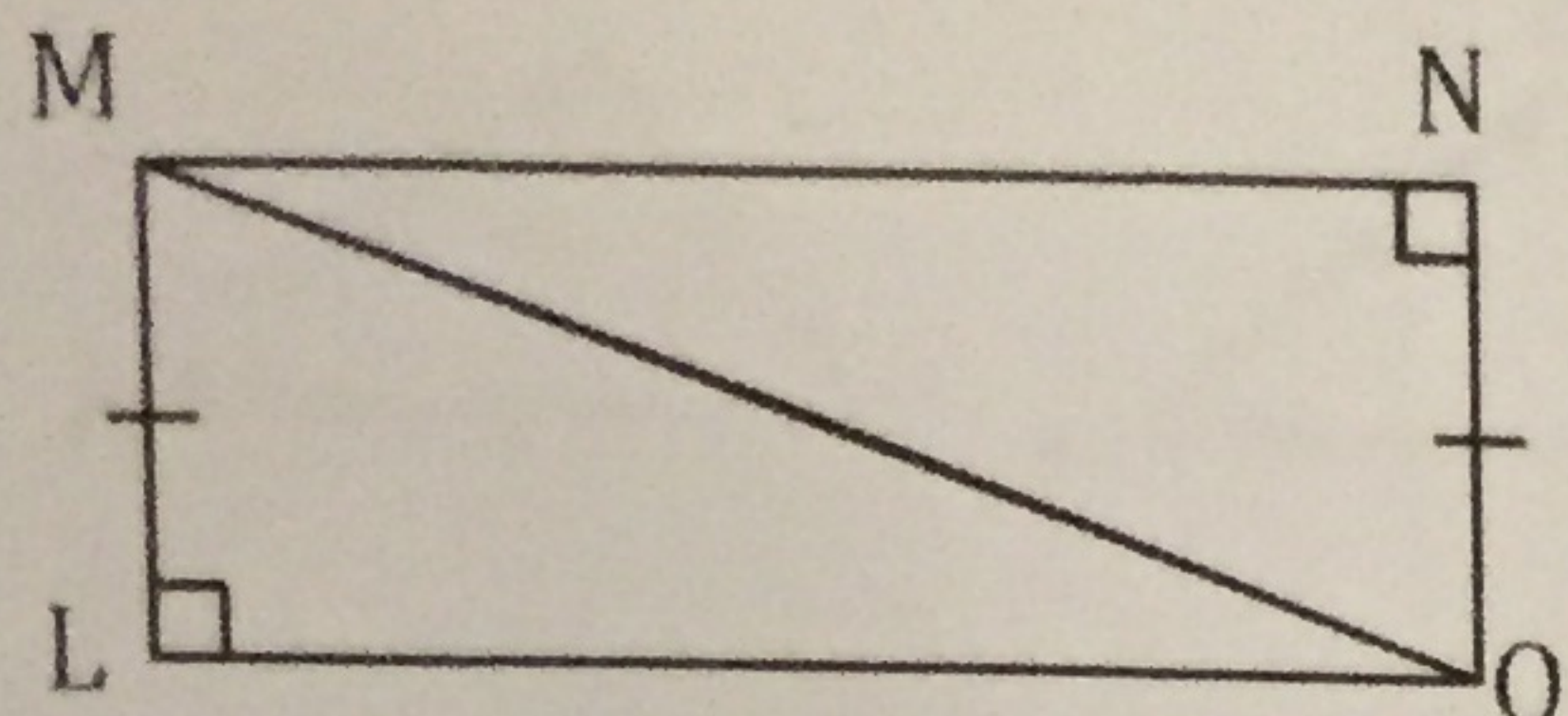
12. Given: \overline{QT} bisects \overline{SP} , \overline{SP} bisects \overline{QT}



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

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

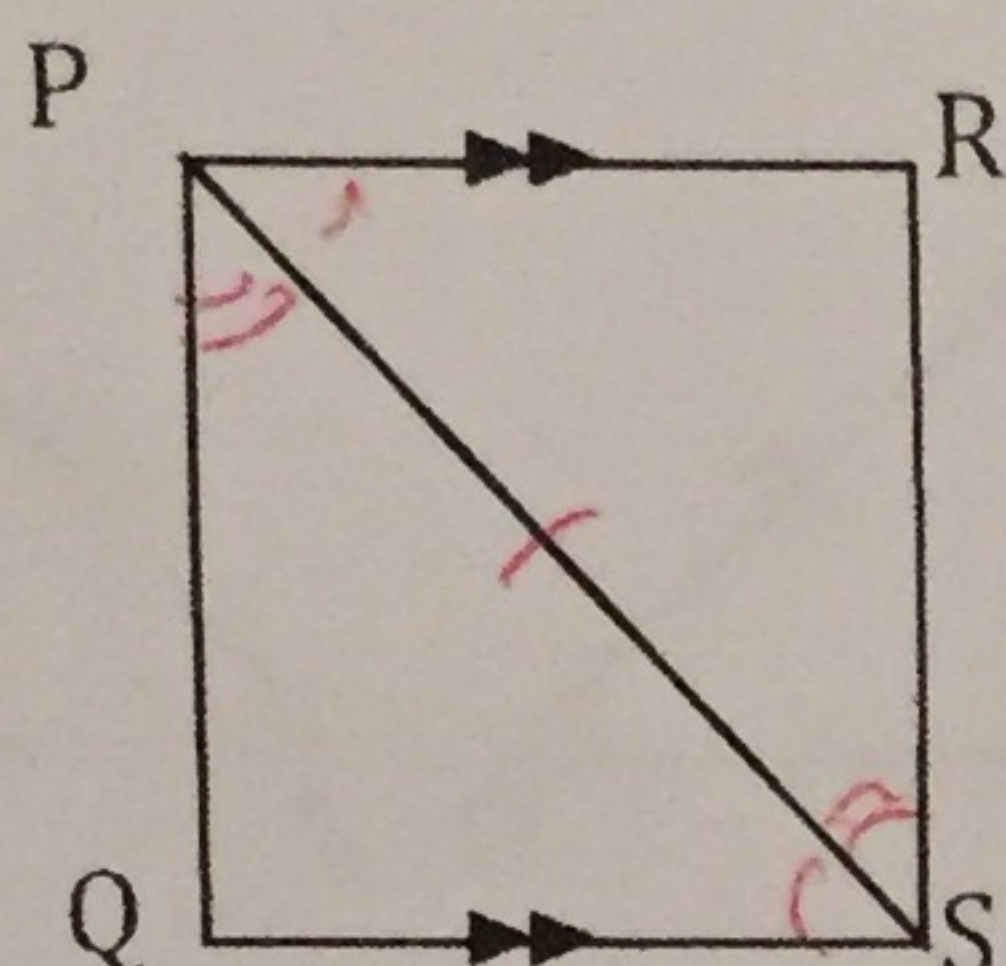
13. Given: $\overline{LM} \cong \overline{NO}$



Prove: $\triangle LMO \cong \triangle NOM$

Statements	Reasons
1. $\overline{LM} \cong \overline{NO}$	1. Given
2. $\overline{MO} \cong \overline{MO}$	2. Reflexive
3. $\triangle LMO \cong \triangle NOM$	3. HL

15. Given: $\overline{PR} \parallel \overline{QS}$, $\angle QPS \cong \angle RSP$

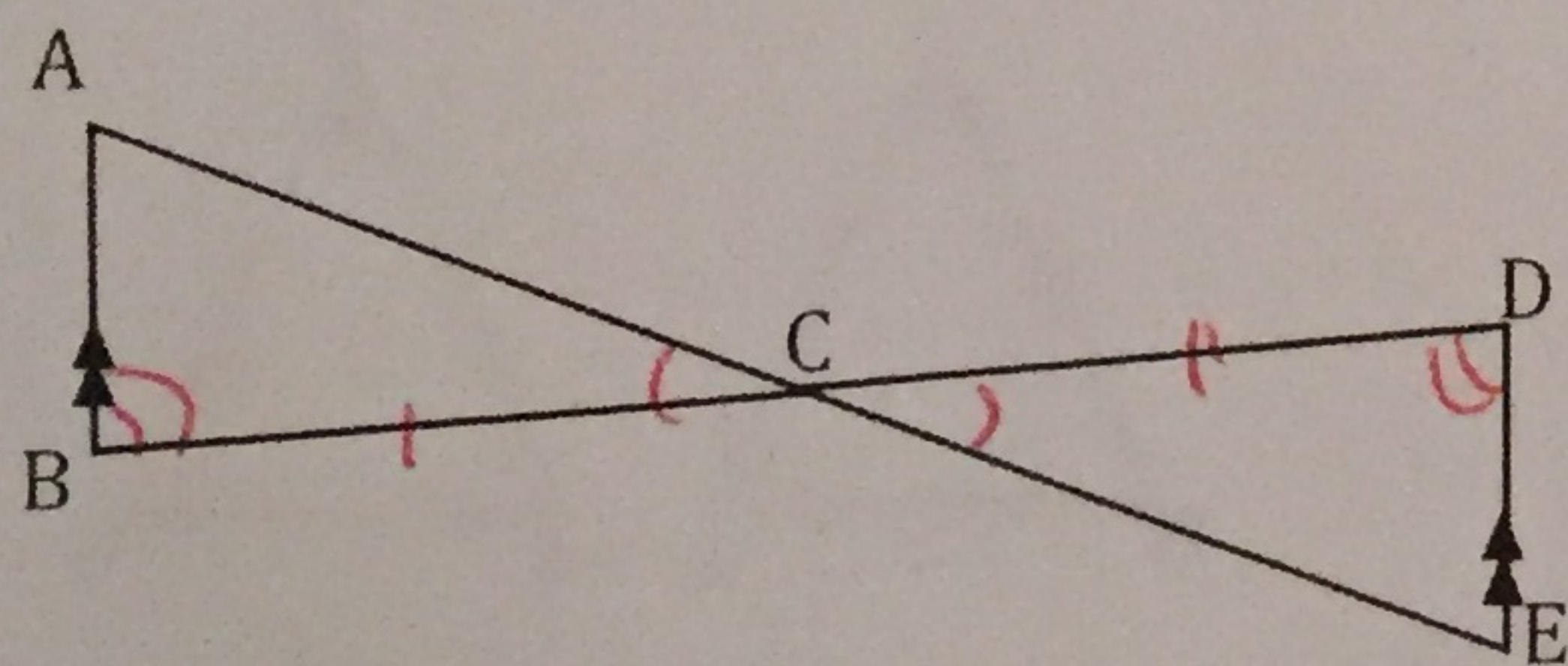


Prove: $\triangle PQS \cong \triangle SRP$

Statements	Reasons
1. $\overline{PR} \parallel \overline{QS}$	1. Given
2. $\angle QPS \cong \angle RSP$	2. Given
3. $\angle PSQ \cong \angle SPR$	3. Alternate Interior
4. $\overline{PS} \cong \overline{PS}$	4. Reflexive Property
5. $\triangle PQS \cong \triangle SRP$	5. ASA

17.

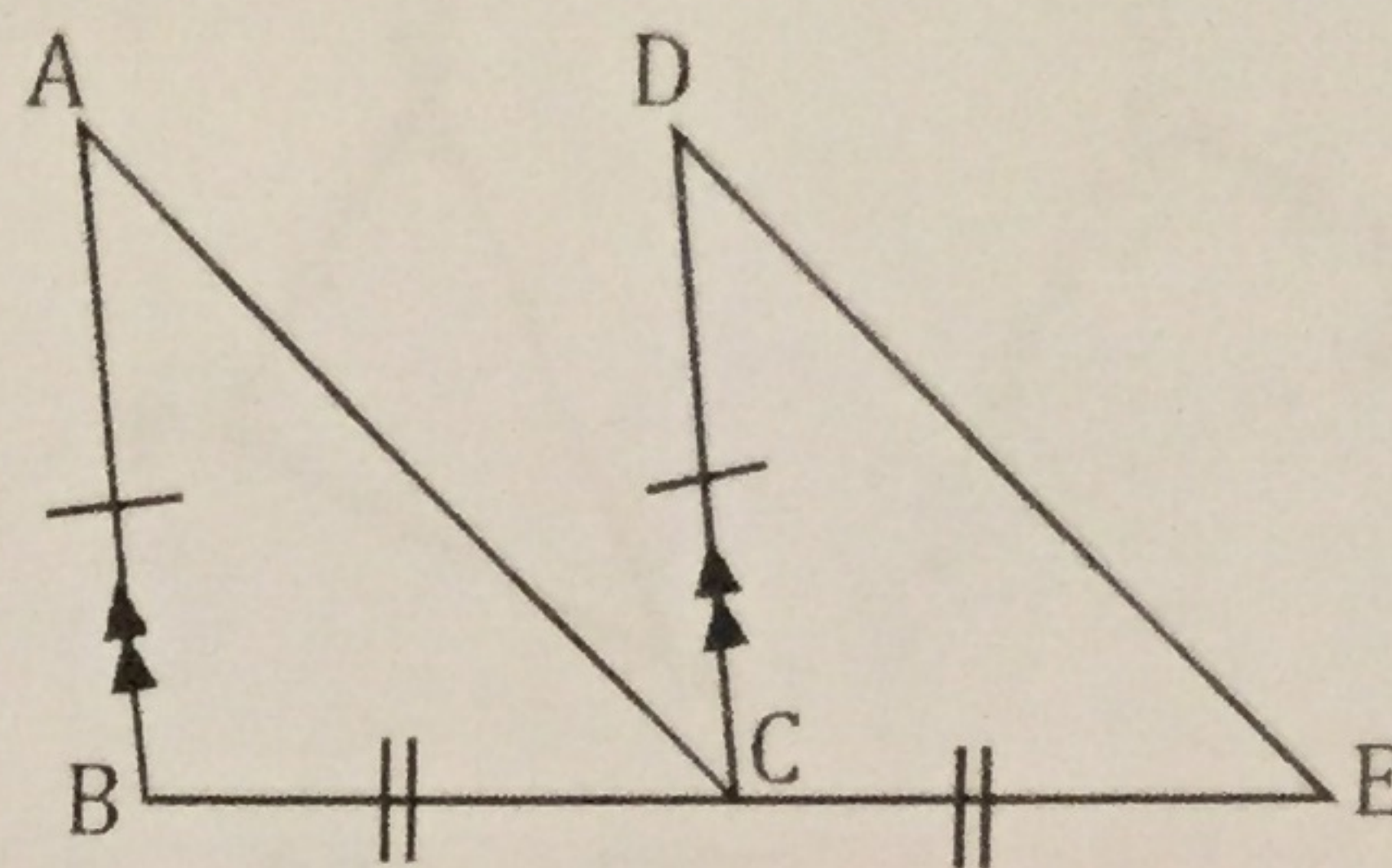
Given: \overline{AE} bisects \overline{BD} , $\overline{AB} \parallel \overline{DE}$



Prove: $\triangle ABC \cong \triangle DCE$

Statements	Reasons
1. \overline{AE} bisects \overline{BD}	1. Given
2. $\overline{AB} \parallel \overline{DE}$	2. Given
3. $\overline{BC} \cong \overline{DC}$	3. Def of bisect
4. $\angle ACB \cong \angle DCB$	4. Vert. \angle s Thm
5. $\angle B \cong \angle D$	5. Alternate Interior
6. $\triangle ABC \cong \triangle DCE$	6. ASA

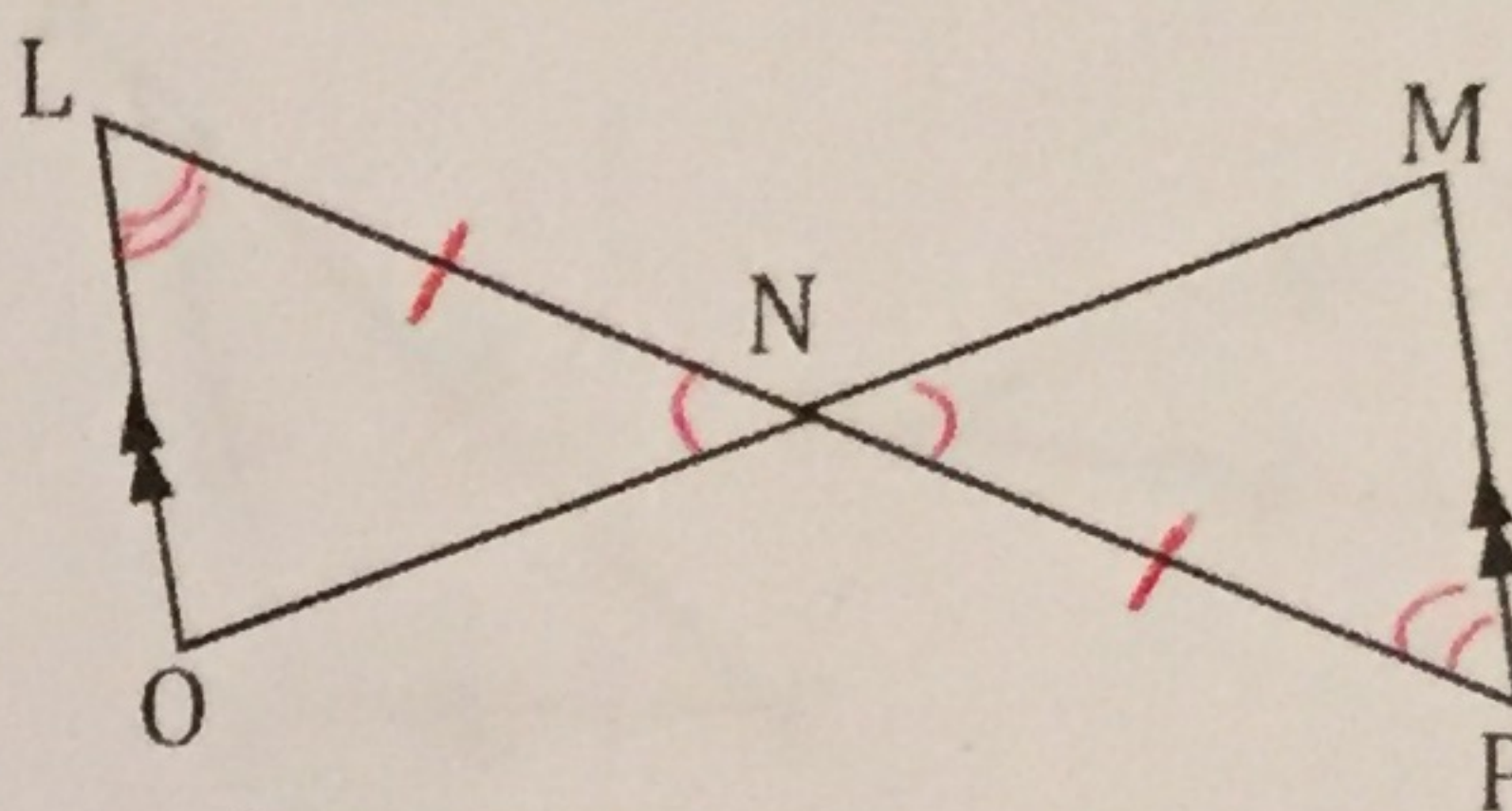
14. Given: $\overline{AB} \cong \overline{DC}$, $\overline{AB} \parallel \overline{DC}$, and $\overline{BC} \cong \overline{CE}$



Prove: $\triangle ABC \cong \triangle DCE$

Statements	Reasons
1. $\overline{AB} \cong \overline{DC}$	1. Given
2. $\overline{AB} \parallel \overline{DC}$	2. Given
3. $\overline{BC} \cong \overline{CE}$	3. Given
4. $\angle B \cong \angle C$	4. Corresponding Angles
5. $\triangle ABC \cong \triangle DCE$	5. SAS

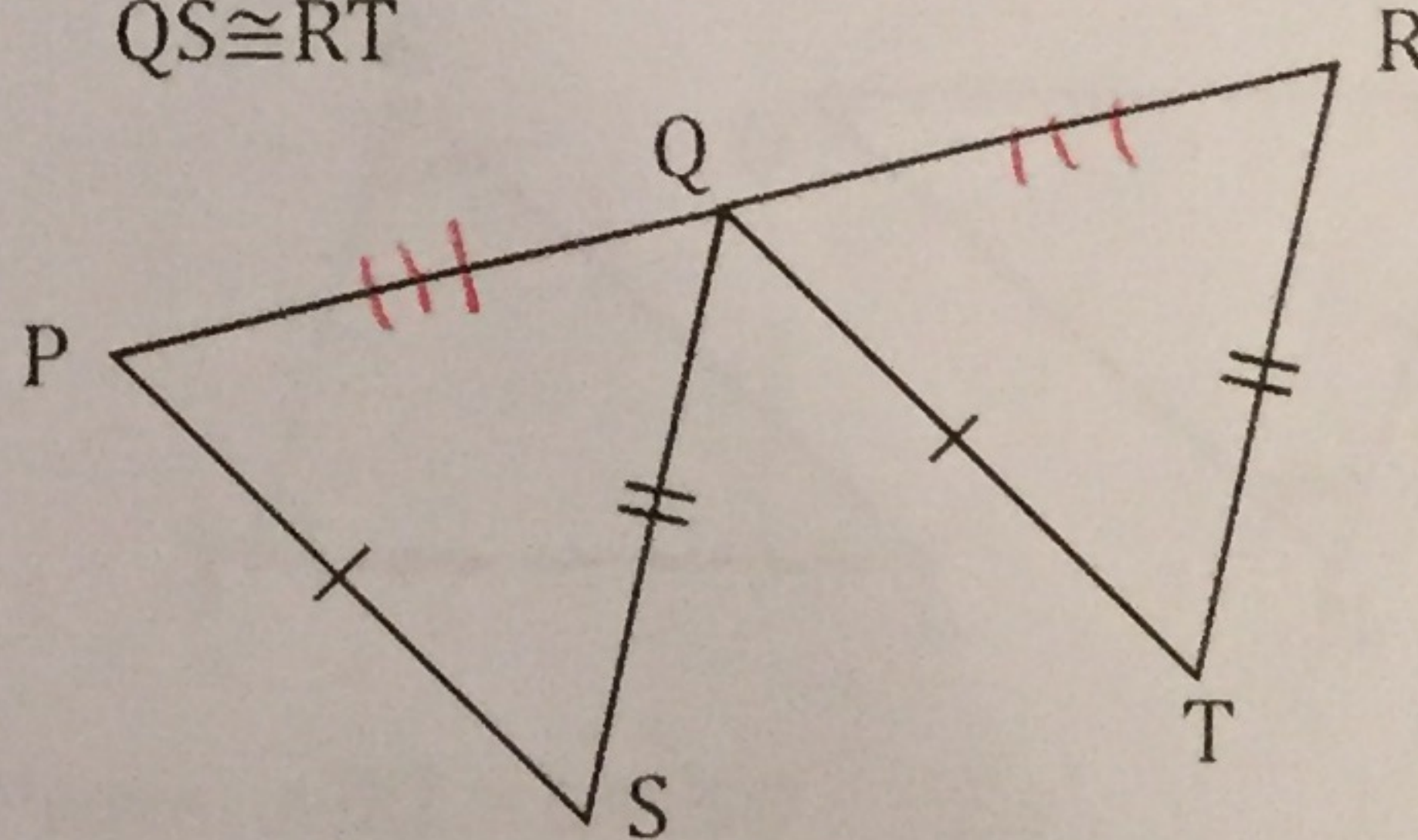
16. Given: \overline{LP} bisects \overline{MO} , $\overline{LO} \parallel \overline{MP}$



Prove: $\triangle LNO \cong \triangle MNP$

Statements	Reasons
1. \overline{LP} bis. \overline{MO}	1. Given
2. $\overline{LO} \parallel \overline{MP}$	2. Given
3. $\overline{LN} \cong \overline{PN}$	3. Def. of bisector
4. $\angle L \cong \angle P$	4. Alternate Interior
5. $\angle LNO \cong \angle PNM$	5. Vertical Angles
6. $\triangle LNO \cong \triangle MNP$	6. ASA

18. Given: Q is the midpoint of \overline{PR} , $\overline{PS} \cong \overline{QT}$ and $\overline{QS} \cong \overline{RT}$

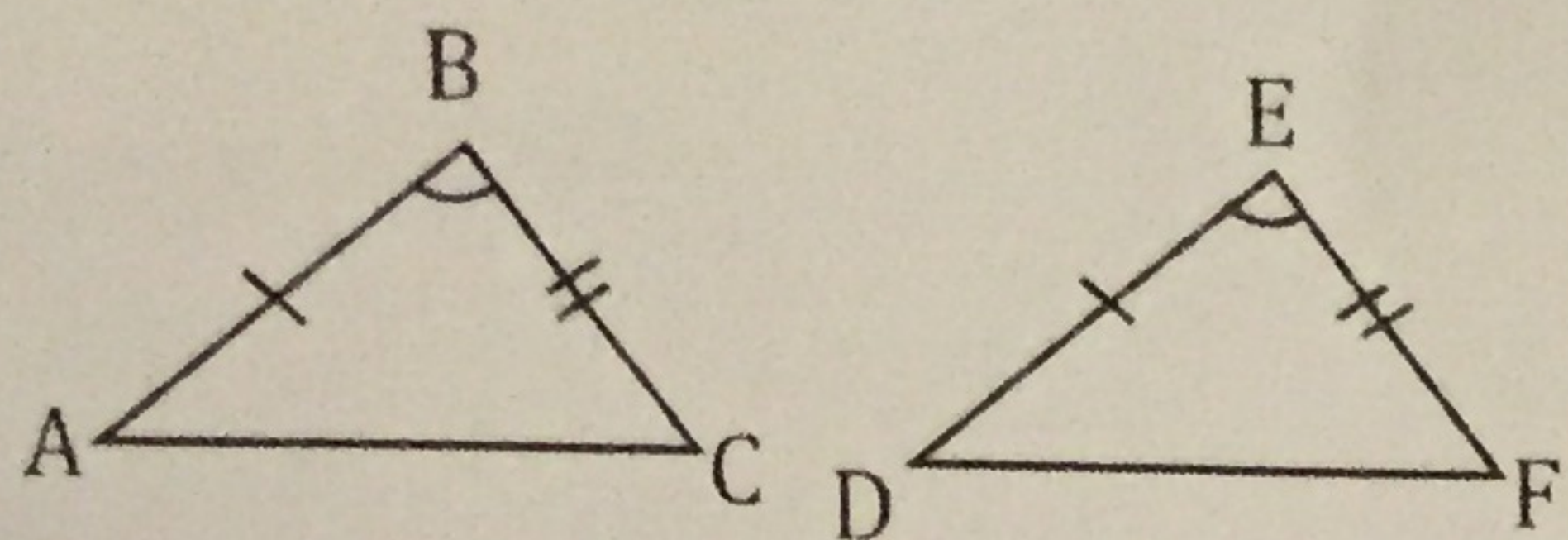


Prove: $\triangle PQS \cong \triangle RQT$

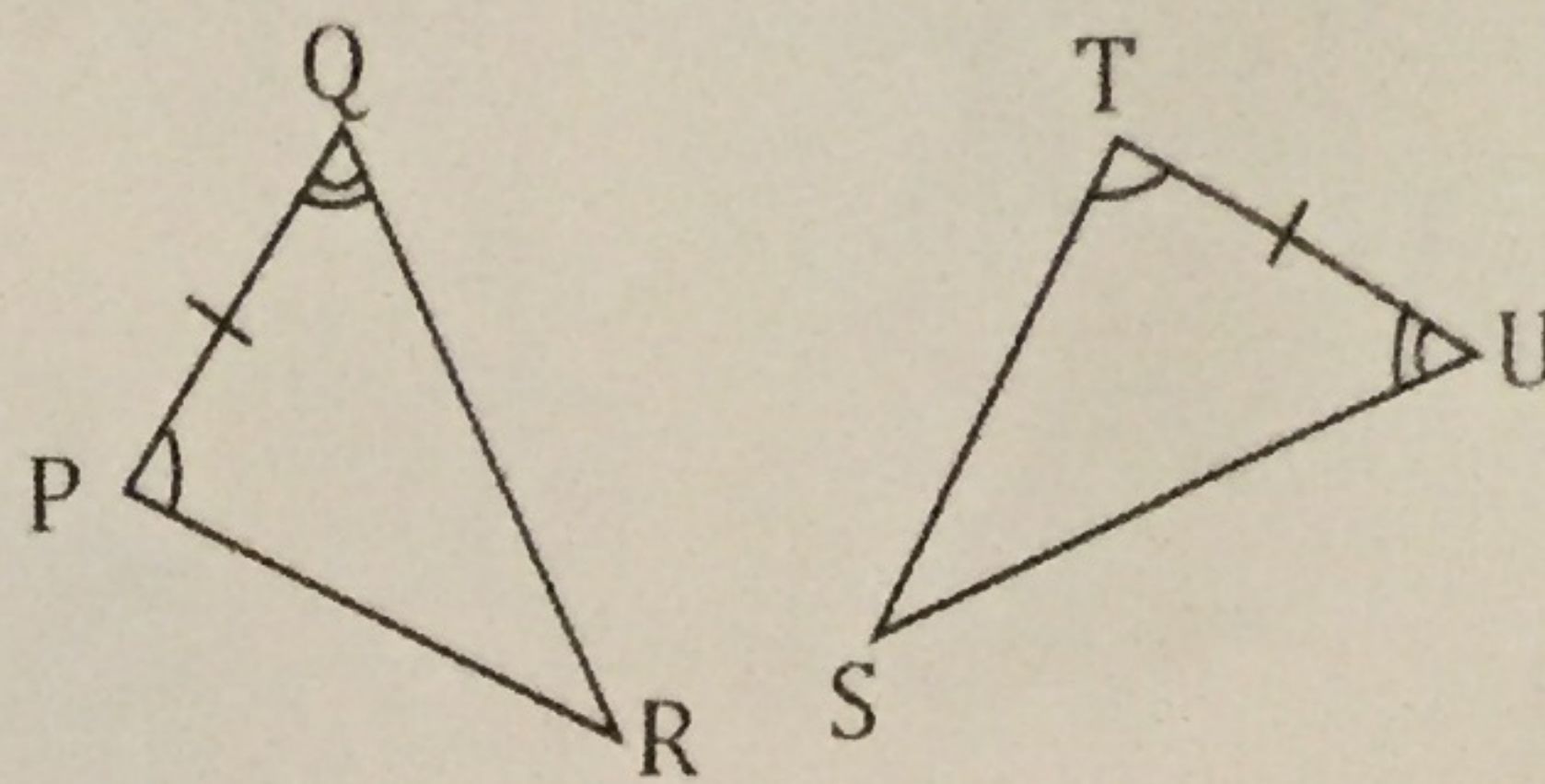
Statements	Reasons
1. Q is mid. of \overline{PR}	1. Given
2. $\overline{PS} \cong \overline{QT}$	2. Given
3. $\overline{QS} \cong \overline{RT}$	3. Given
4. $\overline{PQ} \cong \overline{RQ}$	4. Midpoint
5. $\triangle PQS \cong \triangle RQT$	5. SSS

* on all of these - all info is given *
 you just need to fill in chart and write correct congruency statement

19. Given: $\overline{AB} \cong \overline{DE}$, $\overline{BC} \cong \overline{EF}$, and $\angle B \cong \angle E$



20. Given: $\overline{PQ} \cong \overline{TU}$, $\angle P \cong \angle T$, and $\angle Q \cong \angle U$

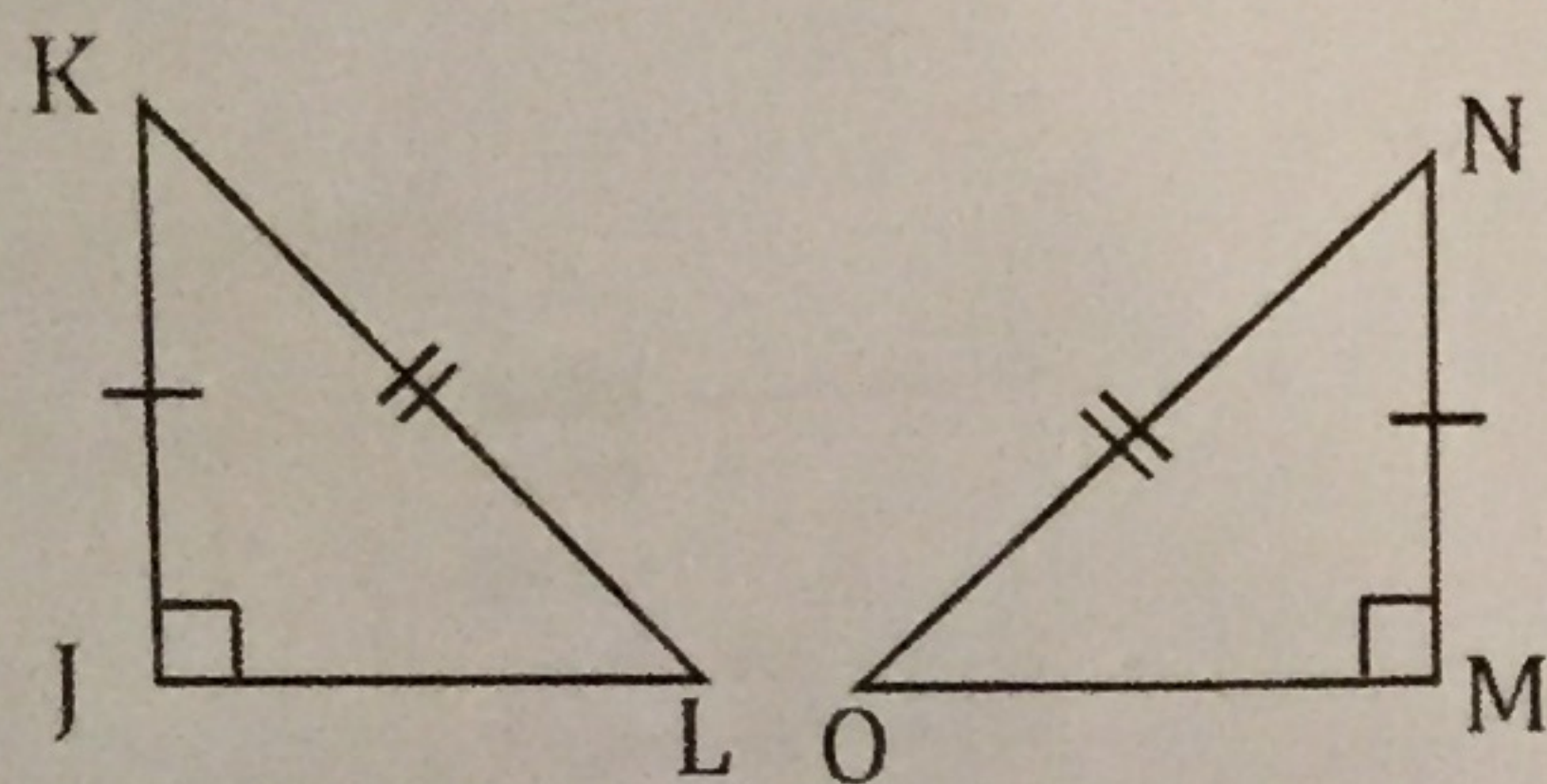


Example

Statement	Reason
$\overline{AB} \cong \overline{DE}$	given
$\overline{BC} \cong \overline{EF}$	given
$\angle B \cong \angle E$	given
$\triangle ABC \cong \triangle DEF$	SAS

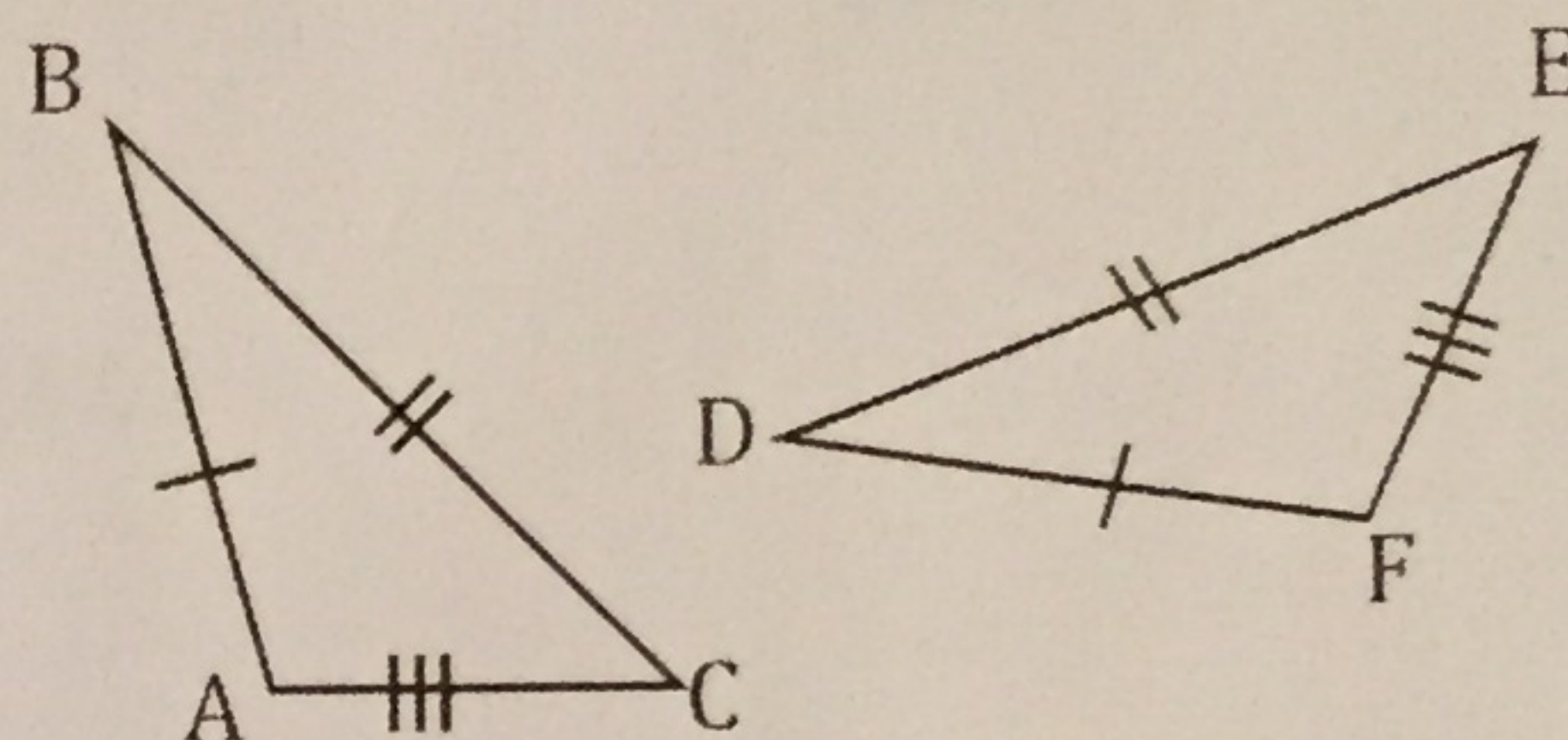
Statement	Reason
$\overline{PQ} \cong \overline{TU}$	given
$\angle P \cong \angle T$	given
$\angle Q \cong \angle U$	given
$\triangle PQR \cong \triangle TUS$	ASA

21. Given: $\overline{JK} \cong \overline{MN}$, $\overline{KL} \cong \overline{NO}$



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

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



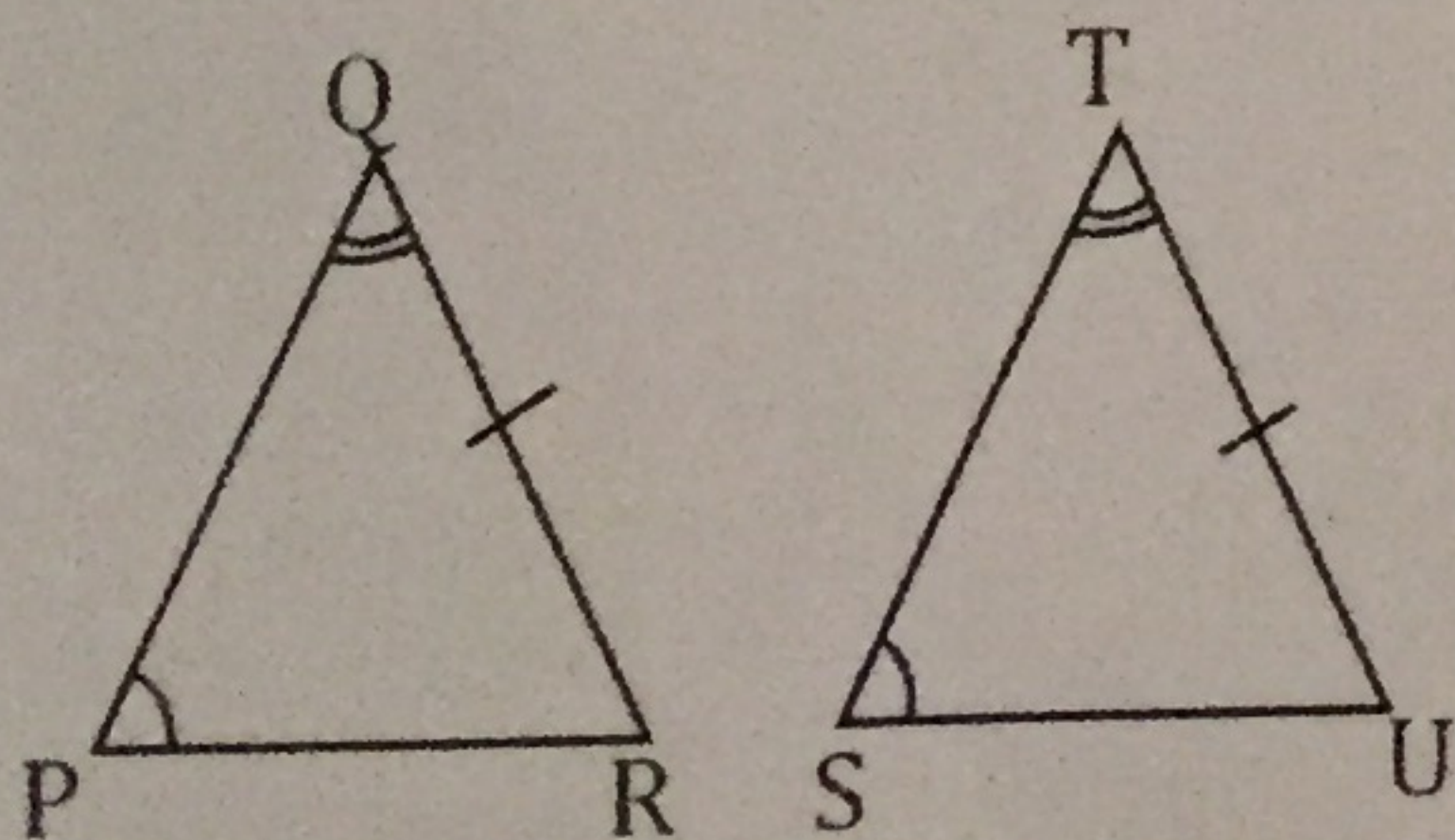
Prove: $\triangle ABD \cong \triangle FDE$

HL

SSS

23.

Given: $\angle P \cong \angle S$, $\angle Q \cong \angle T$, and $\overline{QR} \cong \overline{TU}$

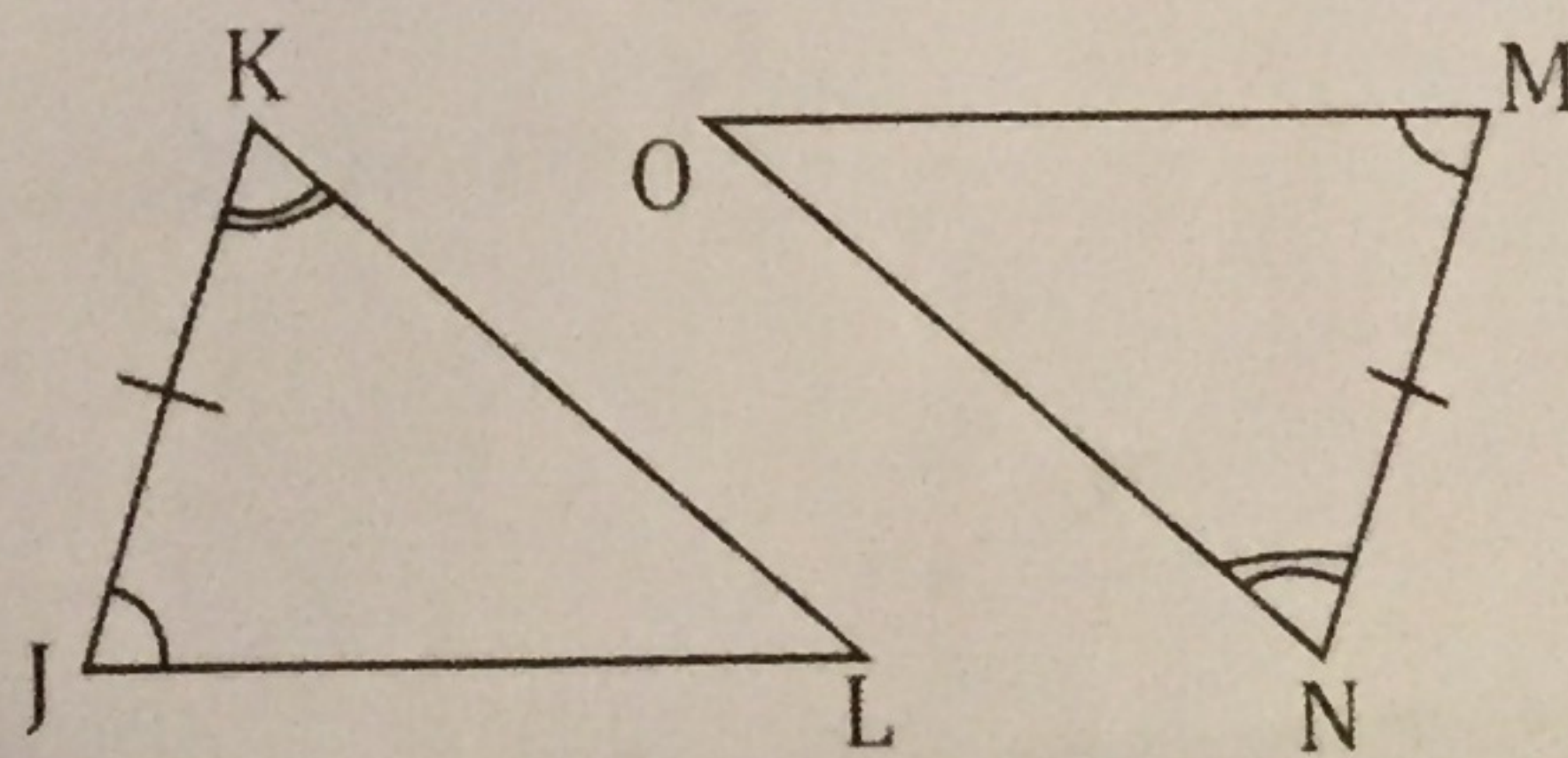


Prove: $\triangle PQR \cong \triangle STU$

AAS

24.

Given: $\angle J \cong \angle M$, $\overline{JK} \cong \overline{MN}$ and $\angle K \cong \angle N$



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

ASA