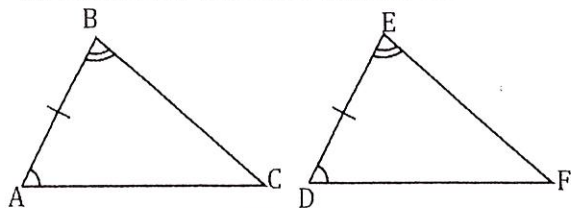


For these fill in any missing statements or reasons.

1.

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

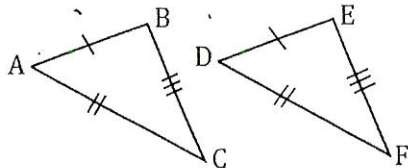


Prove: $\triangle ABC \cong \triangle DEF$

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 $\overline{BC} \cong \overline{EF}$

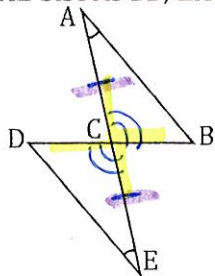


Prove: $\triangle ABC \cong \triangle DEF$

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.

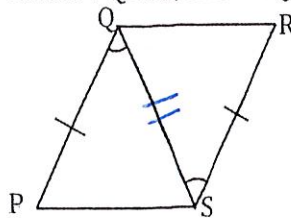
Given: \overline{AE} bisects \overline{BD} , $\angle A \cong \angle E$



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

Statements	Reasons
1. $\angle A \cong \angle E$	1. Given
2. \overline{AE} bisects \overline{BD}	2. Given
3. $\overline{AC} \cong \overline{CE}$	3. Definition of Bisect
4. $\angle ACB \cong \angle DCE$	4. Vertical \angle 's are \cong
5. $\triangle ABC \cong \triangle EDC$	5. ASA

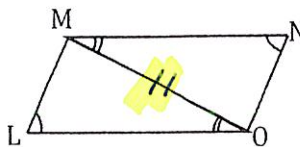
2. Given: $\overline{PQ} \cong \overline{RS}$, and $\angle PQS \cong \angle RSQ$



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

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

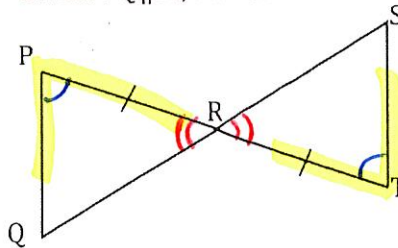


Prove: $\triangle LMO \cong \triangle NOM$

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

6.

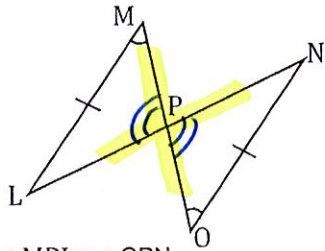
Given: $\overline{PQ} \parallel \overline{ST}$, $\overline{PR} \cong \overline{TR}$



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 are \cong if \parallel .
4. $\angle PRQ \cong \angle TRS$	4. Vertical \angle 's are \cong
5. $\triangle PQR \cong \triangle TSR$	5. ASA

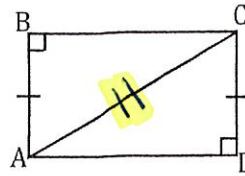
7. Given: $\overline{LM} \cong \overline{NO}$, and $\angle M \cong \angle O$



Prove: $\triangle MPL \cong \triangle OPN$

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. Vertical \angle s are \cong .
4. $\triangle MPL \cong \triangle OPN$	4. AAS

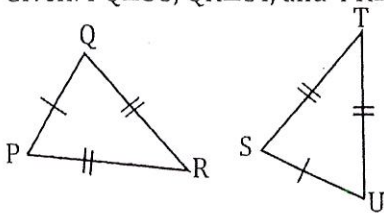
8. Given: $\overline{AB} \cong \overline{DC}$



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

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

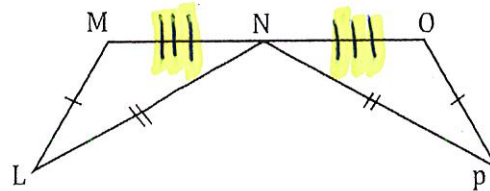
9. Given: $\overline{PQ} \cong \overline{SU}$, $\overline{QR} \cong \overline{ST}$, and $\overline{PR} \cong \overline{TU}$



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 $\overline{LN} \cong \overline{PN}$

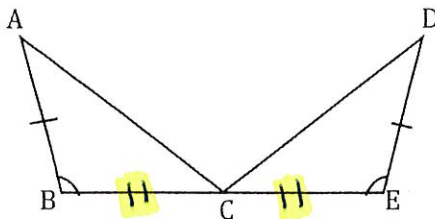


Prove: $\triangle LMN \cong \triangle PON$

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.

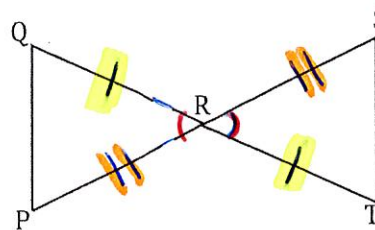
Given: C is the midpoint of \overline{BE} , $\angle B \cong \angle E$, and $\overline{AB} \cong \overline{DE}$



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 midpoint 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: $\triangle QRP \cong \triangle TRS$

Statements	Reasons
1. \overline{QT} bisects \overline{SP}	1. Given
2. \overline{SP} bisects \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. $\triangle QRP \cong \triangle TRS$	6. SAS