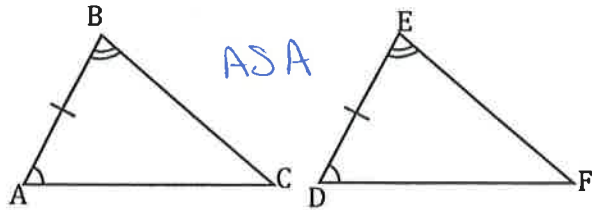


For these fill in any missing statements or reasons.

1.

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

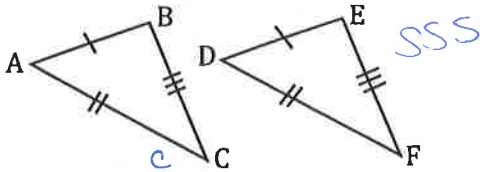


Prove:  $\triangle ABC \cong \triangle DEF$

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

3.

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

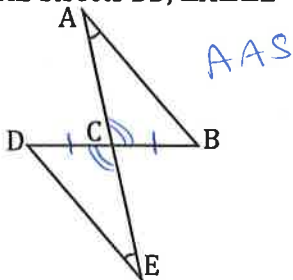


Prove:  $\triangle ABC \cong \triangle DEF$

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

5.

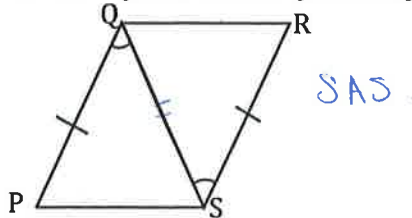
Given:  $\overline{AE}$  bisects  $\overline{BD}$ ,  $\angle A \cong \angle E$



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

Statements	Reasons
(A) 1. $\angle A \cong \angle E$	1. Given
2. $\overline{AE}$ bisects $\overline{BD}$	2. Given
(s) 3. $\overline{DC} \cong \overline{BC}$	3. Definition of Bisector
(A) 4. $\angle ACB \cong \angle DCE$	4. Vertical $\angle$ s are $\cong$
5. $\triangle ABC \cong \triangle EDC$	5. AAS

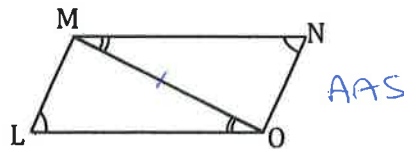
2. Given:  $\overline{PQ} \cong \overline{RS}$ , and  $\angle PQS \cong \angle RSQ$



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

Statements	Reasons
1. $\overline{PQ} \cong \overline{RS}$ (s)	1. Given
(a) 2. $\angle PQS \cong \angle RSQ$	2. Given
(s) 3. $\overline{QS} \cong \overline{QS}$	3. Reflexive prop. $\cong$ Segs.
4. $\triangle PQS \cong \triangle RSQ$	4. SAS

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

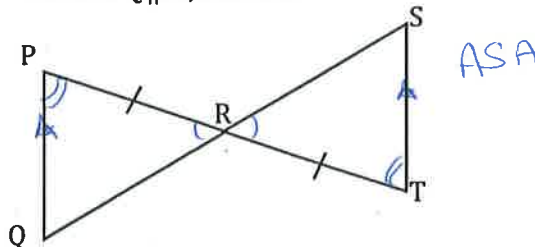


Prove:  $\triangle LMO \cong \triangle NMO$

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

6.

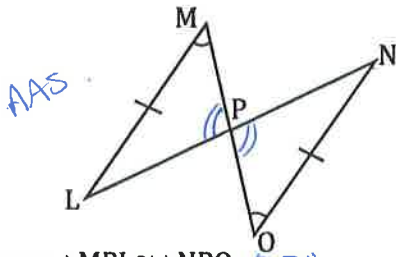
Given:  $\overline{PQ} \parallel \overline{ST}$ ,  $\overline{PR} \cong \overline{TR}$



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

Statements	Reasons
(s) 1. $\overline{PR} \cong \overline{TR}$	1. Given
2. $\overline{PQ} \parallel \overline{ST}$	2. Given
(a) 3. $\angle P \cong \angle T$	3. alt. interior $\angle$ s theorem
(a) 4. $\angle ACB \cong \angle DCE$	4. Vertical $\angle$ s are $\cong$
5. $\triangle PQR \cong \triangle TSR$	5. ASA

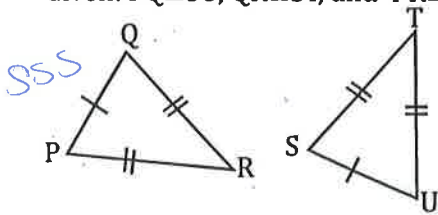
7. Given:  $\overline{LM} \cong \overline{NO}$ , and  $\angle M \cong \angle O$



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

Statements	Reasons
(s) 1. $\overline{LM} \cong \overline{NO}$	1. Given
(a) 2. $\angle M \cong \angle O$	2. Given
(e) 3. $\angle MPL \cong \angle OPN$	3. Vertical $\angle$ s are $\cong$
4. $\triangle MPL \cong \triangle OPN$	4. AAS

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

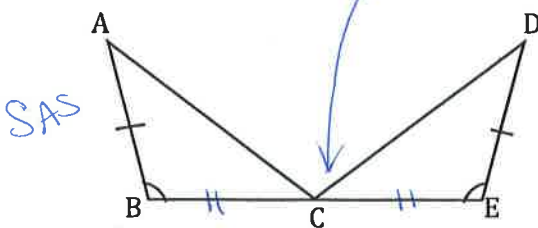


Prove:  $\triangle PQR \cong \triangle STU$

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

11.

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

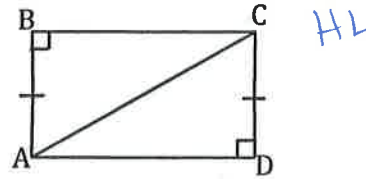


Prove:  $\triangle ABC \cong \triangle DEC$

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

8. skip

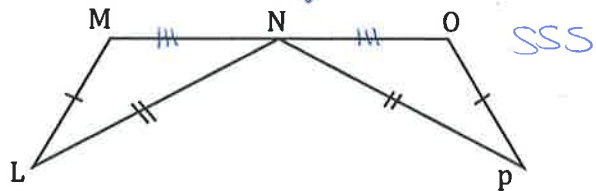
Given:  $\overline{AB} \cong \overline{DC}$



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

Statements	Reasons
(A) 1. $\overline{AB} \cong \overline{DC}$	1. Given
(H) 2. $\overline{AC} \cong \overline{AC}$	2. Reflexive prop $\cong$ segs
3. $\triangle ABC \cong \triangle CDA$	3. HL

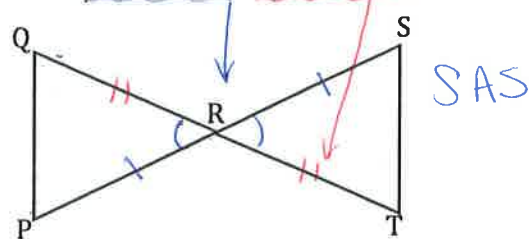
10. Given: N is the midpoint of  $\overline{MO}$ ,  $\overline{LM} \cong \overline{OP}$ , and  $\overline{LN} \cong \overline{PN}$



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

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

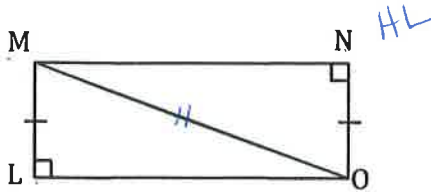
12. Given:  $\overline{QT}$  bisects  $\overline{SP}$ ,  $\overline{SP}$  bisects  $\overline{QT}$



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

Statements	Reasons
1. $\overline{QT}$ bisects $\overline{SP}$	1. Given
2. $\overline{SP}$ bisects $\overline{QT}$	2. Given
(s) 3. $\overline{QR} \cong \overline{SR}$	3. Definition of Bisect or
(s) 4. $\overline{PR} \cong \overline{SR}$	4. Definition of bisector
5. $\angle QRP \cong \angle TRS$	5. Vertical Angles are $\cong$
6. $\triangle QRP \cong \triangle SRT$	6. SAS

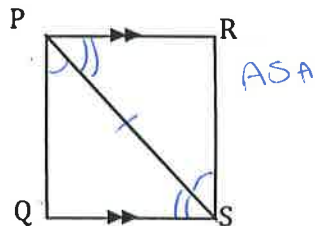
13. skip  
Given:  $\overline{LM} \cong \overline{NO}$



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

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

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

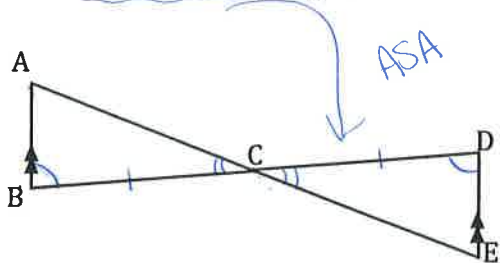


Prove:  $\triangle PQS \cong \triangle SRP$

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 Ls
4. $\overline{PS} \cong \overline{PS}$	4. Reflexive Property
5. $\triangle PQS \cong \triangle SRP$	5. ASA

17.

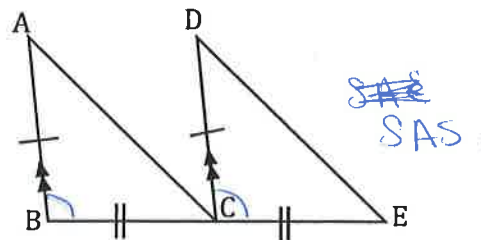
Given:  $\overline{AE}$  bisects  $\overline{BD}$ ,  $\overline{AB} \parallel \overline{DE}$



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

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 seg. bisector
4. $\angle ACB \cong \angle DCE$	4. Vertical Ls are $\cong$
5. $\angle B \cong \angle D$	5. Alternate Interior Ls theorem
6. $\triangle ABC \cong \triangle DEC$	6. ASA

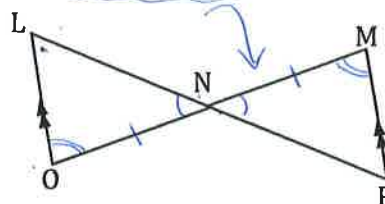
14. Given:  $\overline{AB} \cong \overline{DC}$ ,  $\overline{AB} \parallel \overline{DC}$ , and  $\overline{BC} \cong \overline{CE}$



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

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

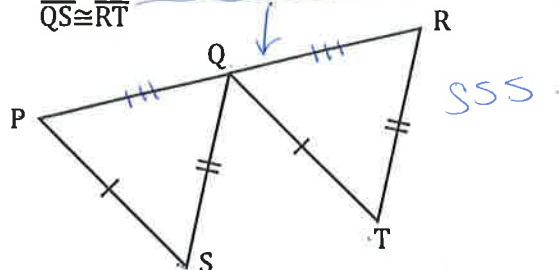
16. Given:  $\overline{LP}$  bisects  $\overline{MO}$ ,  $\overline{LO} \parallel \overline{MP}$



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

Statements	Reasons
1. $\overline{LP}$ bisects $\overline{MO}$	1. Given
2. $\overline{LO} \parallel \overline{MP}$	2. Given
3. $\overline{LN} \cong \overline{PN}$ , $\overline{ON} \cong \overline{MN}$	3. def seg bisector
4. $\angle O \cong \angle M$	4. Alternate Interior Ls theorem
5. $\angle LNO \cong \angle MNP$	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:  $\triangle PQS \cong \triangle QRT$

Statements	Reasons
1. Q is the midpt of $\overline{PR}$	1. Given
2. $\overline{PS} \cong \overline{QT}$ (S)	2. Given
3. $\overline{QS} \cong \overline{RT}$ (S)	3. Given
4. $\overline{PQ} \cong \overline{QR}$ (S)	4. Midpoint def
5. $\triangle PQS \cong \triangle QRT$	5. SSS