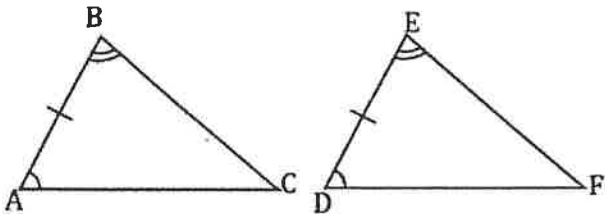


For these fill in any missing statements or reasons.

1.

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

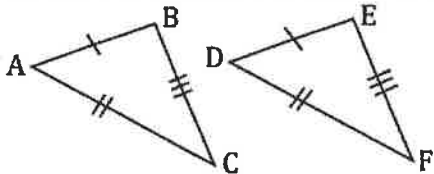


Prove: $\triangle ABC \cong \triangle DEF$

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

3.

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

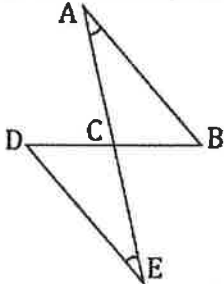


Prove: $\triangle ABC \cong \triangle DEF$

| Statements | Reasons |
|--|---------|
| 1. $\overline{AB} \cong \overline{DE}$ | 1. |
| 2. | 2. |
| 3. | 3. |
| 4. | 4. SSS |

5.

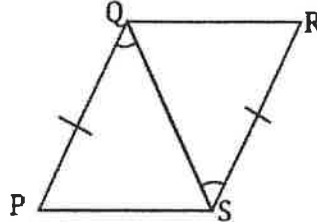
Given: \overline{AE} bisects \overline{BD} , $\angle A \cong \angle E$



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

| Statements | Reasons |
|--|-------------------------|
| 1. $\angle A \cong \angle E$ | 1. |
| 2. | 2. Given |
| 3. | 3. Definition of Bisect |
| 4. $\angle ACB \cong \angle DCE$ | 4. |
| 5. $\triangle ABC \cong \triangle EDC$ | 5. |

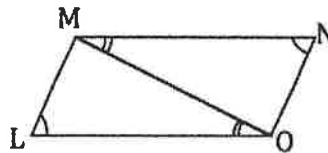
2. Given: $\overline{PQ} \cong \overline{RS}$, and $\angle PQS \cong \angle RSQ$



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

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

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

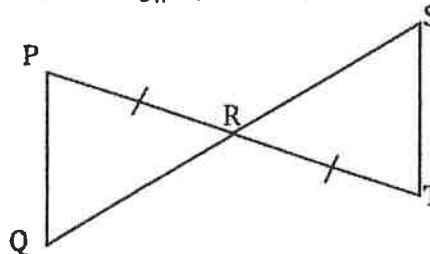


Prove: $\triangle LMO \cong \triangle NMO$

| Statements | Reasons |
|--|-----------------------|
| 1. | 1. |
| 2. | 2. Given |
| 3. | 3. Reflexive Property |
| 4. $\triangle LMO \cong \triangle NMO$ | 4. |

6.

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



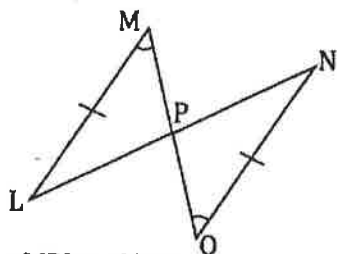
Prove: $\triangle PQR \cong \triangle TSR$

| Statements | Reasons |
|--|----------|
| 1. $\overline{PR} \cong \overline{TR}$ | 1. |
| 2. | 2. Given |
| 3. $\angle P \cong \angle T$ | 3. |
| 4. | 4. |
| 5. | 5. ASA |

Geometry
Congruent Triangles Proof (2)

Name _____
Date _____ Period _____

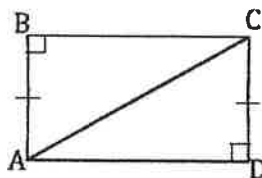
7. Given: $\overline{LM} \cong \overline{NO}$, and $\angle M \cong \angle O$



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

| Statements | Reasons |
|--|----------|
| 1. $\overline{LM} \cong \overline{NO}$ | 1. |
| 2. | 2. Given |
| 3. | 3. |
| 4. | 4. AAS |

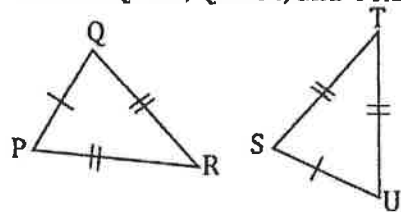
8. Given: $\overline{AB} \cong \overline{DC}$



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

| Statements | Reasons |
|--|----------|
| 1. | 1. Given |
| 2. $\overline{AC} \cong \overline{AC}$ | 2. |
| 3. $\triangle ABC \cong \triangle CDA$ | 3. |

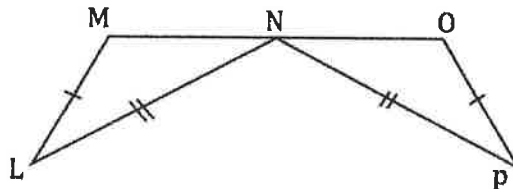
9. Given: $\overline{PQ} \cong \overline{SU}$, $\overline{QR} \cong \overline{ST}$, and $\overline{PR} \cong \overline{TU}$



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

| Statements | Reasons |
|--|----------|
| 1. | 1. Given |
| 2. | 2. Given |
| 3. | 3. |
| 4. $\triangle PQR \cong \triangle STU$ | 4. |

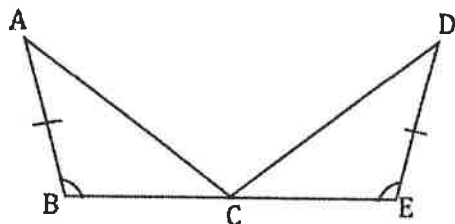
10. Given: N is the midpoint of \overline{MO} , $\overline{LM} \cong \overline{OP}$, and $\overline{LN} \cong \overline{PN}$



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

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

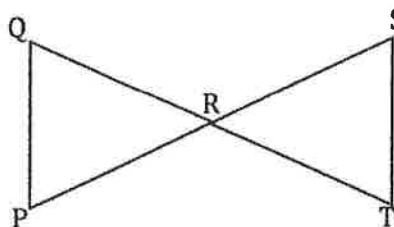
11. Given: C is the midpoint of \overline{BE} , $\angle B \cong \angle E$, and $\overline{AB} \cong \overline{DE}$



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

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

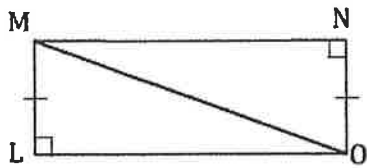
12. Given: \overline{QT} bisects \overline{SP} , \overline{SP} bisects \overline{QT}



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

| Statements | Reasons |
|--|-------------------------|
| 1. \overline{QT} bisects \overline{SP} | 1. Given |
| 2. | 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. |

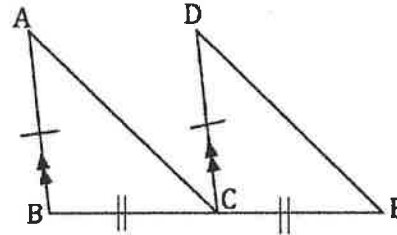
13. Given: $\overline{LM} \cong \overline{NO}$



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

| Statements | Reasons |
|--|---------|
| 1. $\overline{LM} \cong \overline{NO}$ | 1. |
| 2. | 2. |
| 3. | 3. |

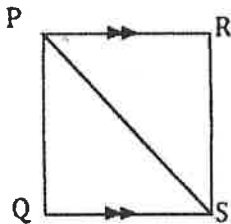
14. Given: $\overline{AB} \cong \overline{DC}$, $\overline{AB} \parallel \overline{DC}$, and $\overline{BC} \cong \overline{CE}$



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

| Statements | Reasons |
|--|-------------------------|
| 1. $\overline{AB} \cong \overline{DC}$ | 1. Given |
| 2. | 2. Given |
| 3. | 3. Given |
| 4. | 4. Corresponding Angles |
| 5. $\triangle ABC \cong \triangle DCE$ | 5. |

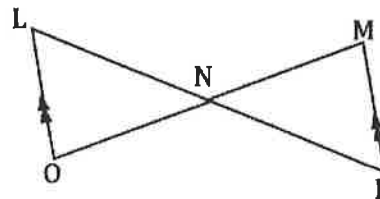
15. Given: $\overline{PR} \parallel \overline{QS}$, $\angle QPS \cong \angle RSP$



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

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

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

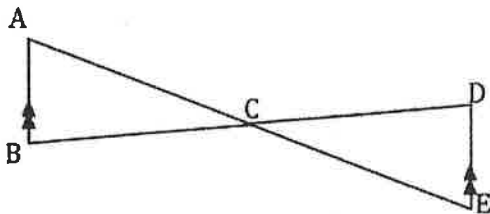


Prove: $\triangle LNO \cong \triangle MNP$

| Statements | Reasons |
|--|-----------------------|
| 1. | 1. Given |
| 2. | 2. Given |
| 3. $\overline{LN} \cong \overline{PN}$ | 3. |
| 4. | 4. Alternate Interior |
| 5. | 5. Vertical Angles |
| 6. | 6. ASA |

17.

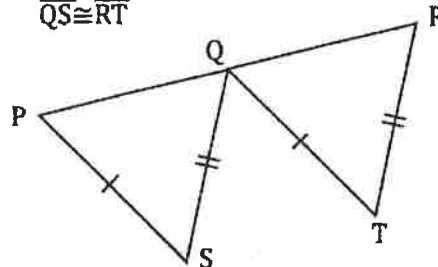
Given: \overline{AE} bisects \overline{BD} , $\overline{AB} \parallel \overline{DE}$



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

| Statements | Reasons |
|--|-----------------------|
| 1. \overline{AE} bisects \overline{BD} | 1. |
| 2. | 2. Given |
| 3. $\overline{BC} \cong \overline{DC}$ | 3. |
| 4. $\angle ACB \cong \angle DCB$ | 4. |
| 5. | 5. Alternate Interior |
| 6. | 6. ASA |

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



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

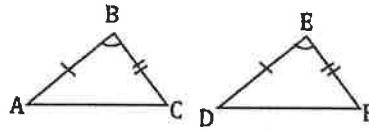
| Statements | Reasons |
|--|-------------|
| 1. | 1. Given |
| 2. | 2. Given |
| 3. $\overline{QS} \cong \overline{RT}$ | 3. |
| 4. | 4. Midpoint |
| 5. $\triangle PQS \cong \triangle RQT$ | 5. |

Geometry
 Congruent Triangles Proof (3)

Name _____
 Date _____ Period _____

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

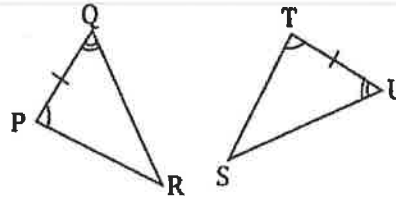
Prove: $\triangle ABC \cong \triangle DEF$



| Statements | Reasons |
|------------|---------|
| | |

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

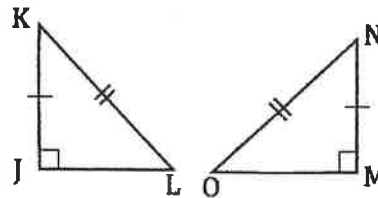
Prove: $\triangle PQR \cong \triangle TUS$



| Statements | Reasons |
|------------|---------|
| | |

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

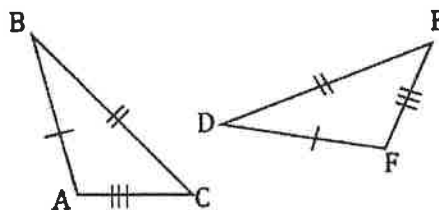
Prove: $\triangle JKL \cong \triangle MNO$



| Statements | Reasons |
|------------|---------|
| | |

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

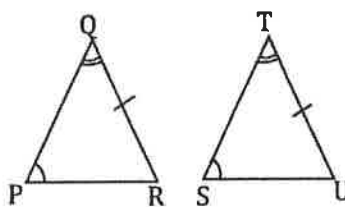
Prove: $\triangle ABD \cong \triangle FDE$



| Statements | Reasons |
|------------|---------|
| | |

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

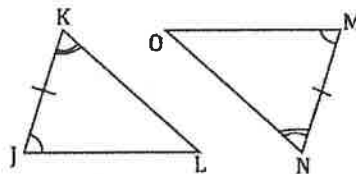
Prove: $\triangle PQR \cong \triangle STU$



| Statements | Reasons |
|------------|---------|
| | |

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

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



| Statements | Reasons |
|------------|---------|
| | |

Geometry

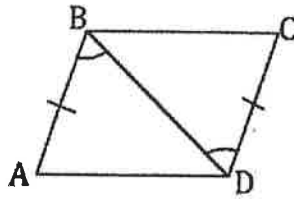
Congruent Triangles Proof (4)

Name _____

Date _____ Period _____

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

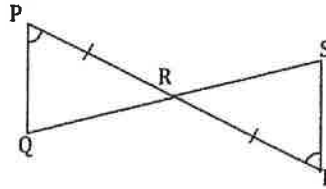
Prove: $\triangle ABD \cong \triangle CDB$



| Statements | Reasons |
|------------|---------|
| | |

26) Given: $\overline{PR} \cong \overline{TR}$, $\angle P \cong \angle T$

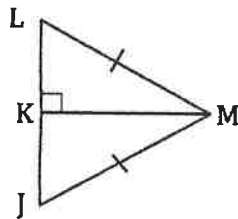
Prove: $\triangle PQR \cong \triangle TSR$



| Statements | Reasons |
|------------|---------|
| | |

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

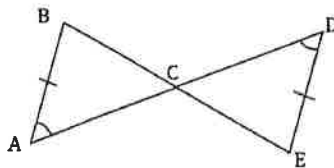
Prove: $\triangle LKM \cong \triangle JKM$



| Statements | Reasons |
|------------|---------|
| | |

28) Given: $\overline{AB} \cong \overline{ED}$, $\angle A \cong \angle D$

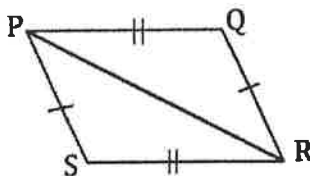
Prove: $\triangle ABC \cong \triangle DCE$



| Statements | Reasons |
|------------|---------|
| | |

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

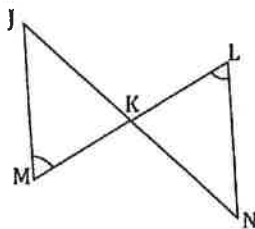
Prove: $\triangle PRS \cong \triangle RPQ$



| Statements | Reasons |
|------------|---------|
| | |

30) Given: \overline{JN} bisects \overline{ML} , $\angle M \cong \angle L$

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



| Statements | Reasons |
|------------|---------|
| | |

