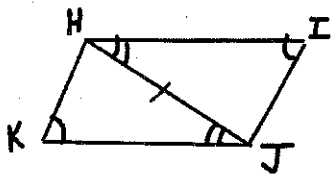


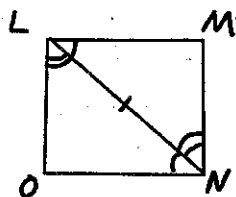
Fill in the blank proofs:

Problem 5:



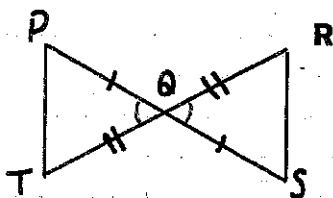
| Statement                              | Reason                |
|--|-----------------------|
| 1. $\angle I \cong \angle K$           | 1. Given              |
| 2. $\angle IHJ \cong \angle KJH$       | 2. Given              |
| 3. $\overline{HJ} \cong \overline{HJ}$ | 3. Reflexive Property |
| 4. $\triangle HJK \cong \triangle JHI$ | 4. AAS                |

Problem 6:



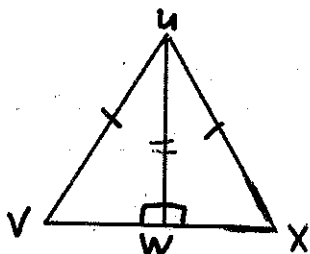
| Statement                              | Reason                |
|--|-----------------------|
| 1. $\angle MLN \cong \angle ONL$       | 1. Given              |
| 2. $\angle OLN \cong \angle MNL$       | 2. Given              |
| 3. $\overline{LN} \cong \overline{LN}$ | 3. Reflexive Property |
| 4. $\triangle LNO \cong \triangle NLM$ | 4. ASA                |

Problem 7:



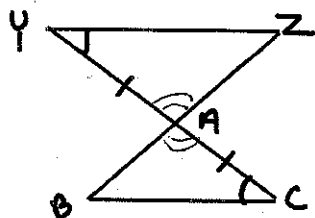
| Statement                              | Reason                             |
|--|------------------------------------|
| 1. $\overline{PQ} \cong \overline{RQ}$ | 1. Given                           |
| 2. $\overline{QT} \cong \overline{QS}$ | 2. Given                           |
| 3. $\angle PQT \cong \angle RQS$       | 3. Vertical $\angle$ s are $\cong$ |
| 4. $\triangle PQT \cong \triangle RQS$ | 4. SAS                             |

Problem 8:



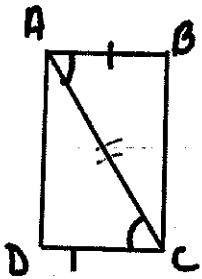
| Statement                              | Reason                |
|--|-----------------------|
| 1. $\overline{UV} \cong \overline{UX}$ | 1. Given              |
| 2. $\angle VWU \cong \angle XWU$       | 2. Given              |
| 3. $\overline{UW} \cong \overline{UW}$ | 3. Reflexive Property |
| 4. $\triangle UWV \cong \triangle UWX$ | 4. HL                 |

Problem 9:



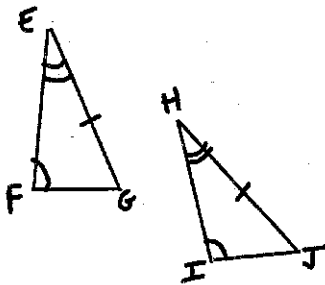
| Statement                              | Reason                           |
|--|----------------------------------|
| 1. $\angle Y \cong \angle C$           | 1. Given                         |
| 2. $\overline{YA} \cong \overline{CA}$ | 2. Given                         |
| 3. $\angle ZYA \cong \angle BAC$       | 3. Vertical Angles are congruent |
| 4. $\triangle YZA \cong \triangle CBA$ | 4. ASA                           |

Problem 10:



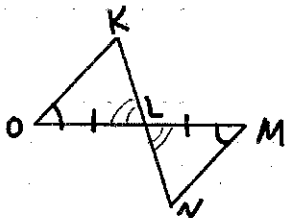
| Statement                              | Reason                |
|--|-----------------------|
| 1. $\angle BAC \cong \angle DCA$       | 1. Given              |
| 2. $\overline{AB} \cong \overline{CD}$ | 2. Given              |
| 3. $\overline{AC} \cong \overline{AC}$ | 3. Reflexive Property |
| 4. $\triangle ABC \cong \triangle CDA$ | 4. SAS                |

Problem 11:



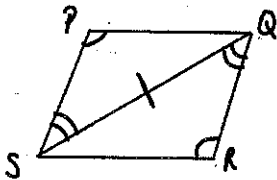
| Statement                              | Reason   |
|--|----------|
| 1. $\angle F \cong \angle I$           | 1. Given |
| 2. $\angle E \cong \angle H$           | 2. Given |
| 3. $\overline{EG} \cong \overline{HJ}$ | 3. Given |
| 4. $\triangle EFG \cong \triangle HIJ$ | 4. AAS   |

Problem 12:



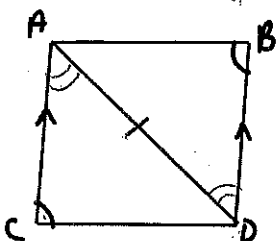
| Statement                              | Reason                             |
|--|------------------------------------|
| 1. $\angle O \cong \angle M$           | 1. Given                           |
| 2. $\overline{LO} \cong \overline{LN}$ | 2. Given                           |
| 3. $\angle KLO \cong \angle NLM$       | 3. Vertical $\angle$ s are $\cong$ |
| 4. $\triangle KLO \cong \triangle NLM$ | 4. ASA                             |
| 5. $\angle K \cong \angle N$           | 5. CPCTC                           |

Problem 13:



| Statement                              | Reason       |
|--|--------------|
| 1. $\angle P \cong \angle R$           | 1. Given     |
| 2. $\angle PSQ \cong \angle RSQ$       | 2. Given     |
| 3. $\overline{QS} \cong \overline{QS}$ | 3. Reflexive |
| 4. $\triangle PQS \cong \triangle RSQ$ | 4. AAS       |

Problem 14:



| Statement                                  | Reason                                   |
|--|--|
| 1. $\overline{AC} \parallel \overline{BD}$ | 1. Given                                 |
| 2. $\angle C \cong \angle B$               | 2. Given                                 |
| 3. $\angle CAD \cong \angle BDA$           | 3. Alternate Int. $\angle$ s are $\cong$ |
| 4. $\overline{AD} \cong \overline{AD}$     | 4. Reflexive Property                    |
| 5. $\triangle ACD \cong \triangle ABD$     | 5. AAS                                   |