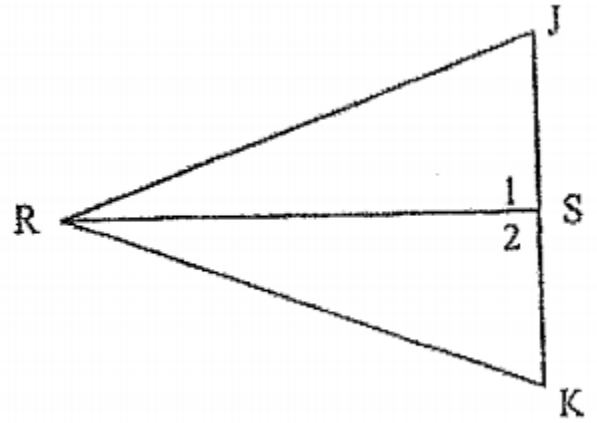


Proving Triangles Congruent Review

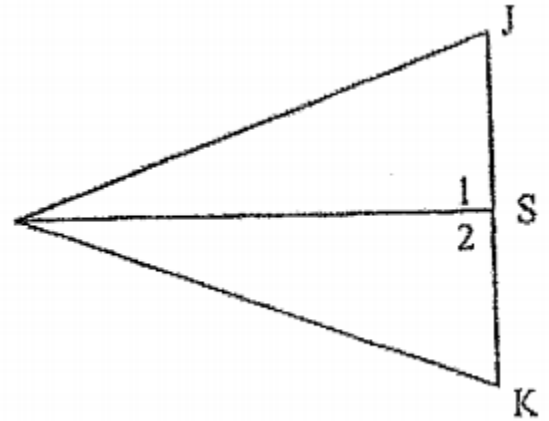
Write a two-column proof for each. Fill in the blanks.

1. Given: $\overline{RJ} \cong \overline{RK}$, $\overline{SJ} \cong \overline{SK}$
 Prove: $\triangle RSJ \cong \triangle RSK$



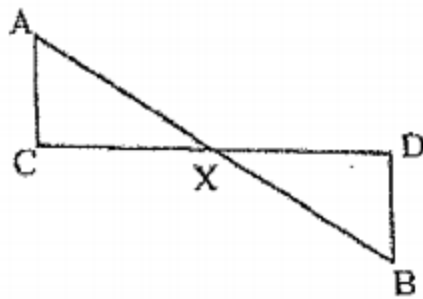
1. _____	1. _____
2. $RS \cong RS$	2. _____
3. _____	3. _____

2. Given: $\angle 1$ and $\angle 2$ are right angles, $\overline{JS} \cong \overline{KS}$



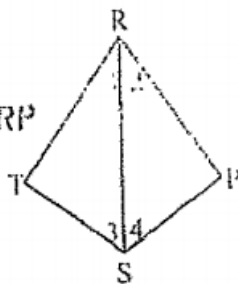
2. 1. _____	1. _____
2. $\angle 1 = 90^\circ + \angle 2 = 90^\circ$	2. _____
3. $\angle 1 \cong \angle 2$	3. _____
4. $RS \cong RS$	4. _____
5. $\triangle RSJ \cong \triangle$ _____	5. _____

3. Given: \overline{AB} and \overline{CD}
bisect each other
Prove: $\triangle AXC \cong \triangle BXD$



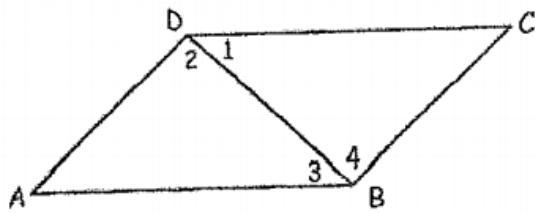
1. _____	1. _____
2. $AX \cong BX$ $CX \cong DX$	2. _____
3. $\angle AXC \cong \angle BXD$	3. _____
4. $\triangle AXC \cong \triangle BXD$	4. _____

4. Given: $\angle 3 \cong \angle 4$, \overline{RS} bisects $\angle TRP$
Prove: $\triangle RST \cong \triangle RSP$



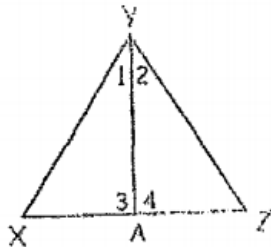
1. _____	1. _____
2. $\angle 1 \cong \angle 2$	2. _____
3. $RS \cong RS$	3. _____
4. $\triangle RST \cong \triangle RSP$	4. _____

5. Given: $\overline{AB} \cong \overline{CD}$
 $\overline{AB} \parallel \overline{CD}$
 Prove: $\triangle ABD \cong \triangle CDB$



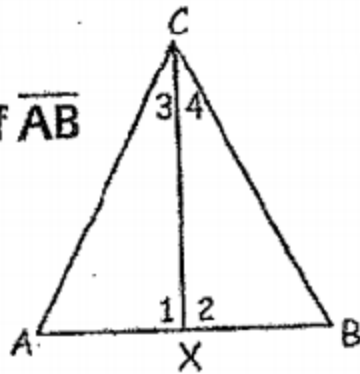
1. _____	1. _____
2. $\angle 3 \cong \angle 1$	2. _____
3. _____	3. Reflexive
4. $\triangle ABD \cong \triangle$ _____	4. _____

6. Given: $\angle X \cong \angle Z$
 $\angle 3 \cong \angle 4$
 Prove: $\overline{XA} \cong \overline{ZA}$



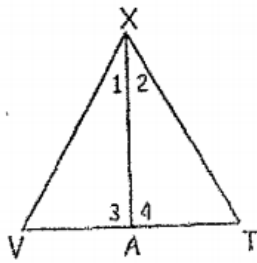
1. _____	1. _____
2. $\overline{YA} \cong \overline{YA}$	2. _____
3. $\triangle XYA \cong \triangle$ _____	3. _____
4. _____	4. _____

7. Given: $\overline{AC} \cong \overline{BC}$
 X is the midpoint of \overline{AB}
 Prove: $\angle 3 \cong \angle 4$



- | | |
|--|----------|
| 1. _____ | 1. _____ |
| 2. $AX \cong BX$ | 2. _____ |
| 3. $CX \cong CX$ | 3. _____ |
| 4. $\triangle ACX \cong \triangle BCX$ | 4. _____ |
| 5. $\angle 3 \cong \angle 4$ | 5. _____ |

8. Given: $\overline{AX} \perp \overline{VT}$
 $\angle 1 \cong \angle 2$
 Prove: $\angle V \cong \angle T$



- | | |
|--|-----------------|
| 1. _____ | 1. _____ |
| 2. $\angle 3 = 90^\circ$; $\angle 4 = 90^\circ$ | 2. def of _____ |
| 3. $\angle 3 \cong \angle 4$ | 3. _____ |
| 4. $XA \cong XA$ | 4. _____ |
| 5. $\triangle VXA \cong \triangle TXA$ | 5. _____ |
| 6. $\angle V \cong \angle T$ | 6. _____ |

