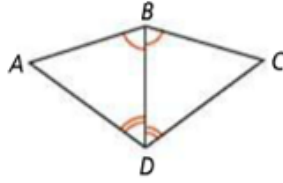


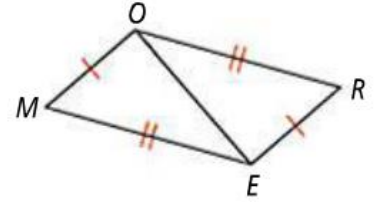
Complete each proof.

1. **Given:**  $\angle ABD \cong \angle CBD$ ,  
 $\angle BDA \cong \angle BDC$

**Prove:**  $\overline{AB} \cong \overline{CB}$



2. **Given:**  $\overline{OM} \cong \overline{ER}$ ,  $\overline{ME} \cong \overline{RO}$   
**Prove:**  $\angle M \cong \angle R$



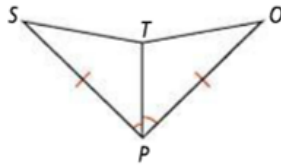
Statements	Reasons
1. $\angle ABD \cong \angle CBD$ , $\angle BDA \cong \angle BDC$	1.
2. $\overline{BD} \cong \overline{BD}$	2.
3. $\triangle ABD \cong \triangle CBD$	3.
4. $\overline{AB} \cong \overline{CB}$	4.

Statements	Reasons
1. $\overline{OM} \cong \overline{ER}$ , $\overline{ME} \cong \overline{RO}$	1.
2. $\overline{OE} \cong \overline{OE}$	2.
3. $\triangle OME \cong \triangle ERO$	3.
4. $\angle M \cong \angle R$	4.

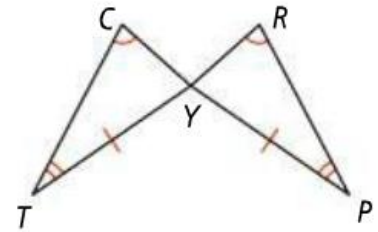
3. **Given:**  $\angle SPT \cong \angle OPT$

$$\overline{SP} \cong \overline{OP}$$

**Prove:**  $\angle S \cong \angle O$



4. **Given:**  $\overline{YT} \cong \overline{YP}$ ,  $\angle C \cong \angle R$ ,  
 $\angle T \cong \angle P$   
**Prove:**  $\overline{CT} \cong \overline{RP}$



**Statements**

- 1.
- 2.
3.  $\triangle STP \cong \triangle OPT$
- 4.

**Reasons**

1. Given
2. Reflexive
- 3.
4. CPCTC

**Statements**

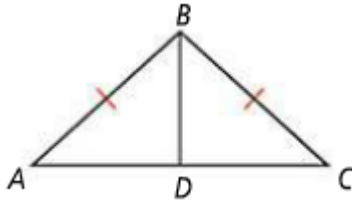
1.  $\overline{YT} \cong \overline{YP}$ ,  $\angle C \cong \angle R$ ,  $\angle T \cong \angle P$
2.  $\triangle TCY \cong \triangle PRY$
3.  $\overline{CT} \cong \overline{RP}$

**Reasons**

- 1.
- 2.
- 3.

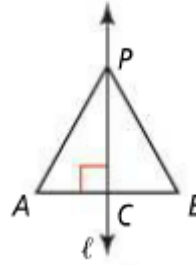
5. **Given:**  $\overline{BA} \cong \overline{BC}$ ,  $\overline{BD}$  bisects  $\angle ABC$

**Prove:**  $\overline{AD} \cong \overline{CD}$



6. **Given:**  $\ell \perp$  bisector of  $\overline{AB}$  at C, P is on  $\ell$

**Prove:**  $\overline{PA} \cong \overline{PB}$

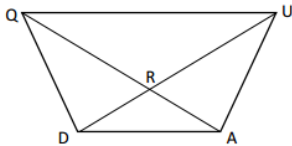


Statements	Reasons
1. $\overline{BA} \cong \overline{BC}$ , $\overline{BD}$ bisects $\angle ABC$	1.
2. $\angle ABD \cong \angle CBD$	2.
3. $\overline{BD} \cong \overline{BD}$	3.
4. $\triangle ABD \cong \triangle CBD$	4.
5. $\overline{AD} \cong \overline{CD}$	5.

Statements	Reasons
1. $\ell \perp$ bisector of $\overline{AB}$ at C, P is on $\ell$	1.
2. $\angle PCA$ and $\angle PCB$ are right $\angle$ s	2.
3. $\overline{CA} \cong \overline{CB}$	3.
4. $\overline{PC} \cong \overline{PC}$	4.
5. $\triangle PCA \cong \triangle PCB$	5.
6. $\overline{PA} \cong \overline{PB}$	6.

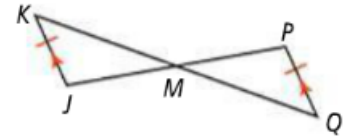
7. **Given:**  $\overline{QD} \cong \overline{UA}$ ,  $\angle QDA \cong \angle UAD$

**Prove:**  $\angle DQA \cong \angle AUD$



8. **Given:**  $\overline{JK} \parallel \overline{QP}$ ,  $\overline{JK} \cong \overline{QP}$

**Prove:**  $\overline{JM} \cong \overline{PM}$



Statements	Reasons
1. $\overline{QD} \cong \overline{UA}$ , $\angle QDA \cong \angle UAD$	1.
2. $\overline{DA} \cong \overline{DA}$	2.
3. $\triangle DQA \cong \triangle AUD$	3.
4. $\angle DQA \cong \angle AUD$	4.

Statements	Reasons
1. $\overline{JK} \parallel \overline{QP}$ , $\overline{JK} \cong \overline{QP}$	1.
2. $\angle K \cong \angle Q$ , $\angle J \cong \angle P$	2.
3. $\triangle JKM \cong \triangle PQM$	3.
4. $\overline{JM} \cong \overline{PM}$	4.