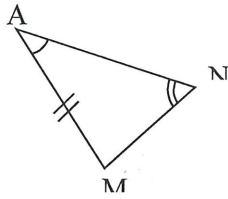
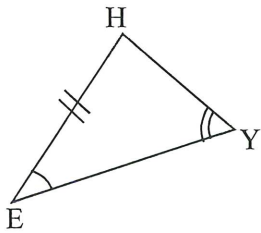
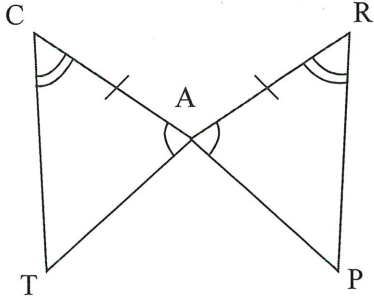


1. $\triangle HEY$ is congruent to $\triangle MAN$ by AAS. What **other** parts of the triangles are congruent by CPCTC?



$$\begin{aligned} \angle H &\cong \angle M \\ \overline{HY} &\cong \overline{MN} \\ \overline{EY} &\cong \overline{AN} \end{aligned}$$

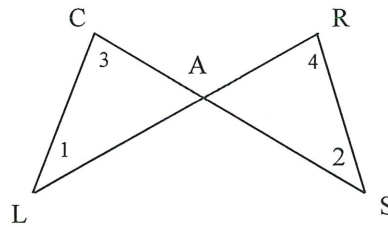
2. $\triangle CAT \cong \triangle RAP$, by ASA THEREFORE: $\angle T \cong \angle P$, by CPCTC



$$\begin{aligned} \overline{AT} &\cong \overline{AP}, \text{ by CPCTC} \\ \overline{CT} &\cong \overline{RP}, \text{ by CPCTC} \end{aligned}$$

3. Given: $\angle 1 \cong \angle 2$ and $\overline{AC} \cong \overline{AR}$

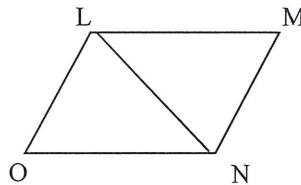
Prove: $\angle 3 \cong \angle 4$



Statement	Reason
1. $\angle 1 \cong \angle 2$	1. Given
2. $\overline{AC} \cong \overline{AR}$	2. Given
3. $\angle CAL \cong \angle RAS$	3. Vertical Angles
4. $\triangle CAL \cong \triangle RAS$	4. AAS
5. $\angle 3 \cong \angle 4$	5. CPCTC.

4. Given: $\angle NLM \cong \angle LNO$ and $\overline{ON} \cong \overline{ML}$

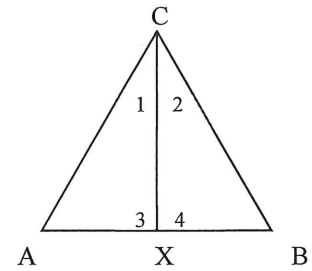
Prove: $\angle M \cong \angle O$



Statement	Reason
1. $\angle NLM \cong \angle LNO$	1. Given
2. $\overline{ON} \cong \overline{ML}$	2. Given
3. $\overline{LN} \cong \overline{NL}$	3. Reflexive Property
4. $\triangle LNO \cong \triangle NLM$	4. SAS
5. $\angle M \cong \angle O$	5. CPCTC

5. **Given:** $\overline{AC} \cong \overline{BC}$ and $\overline{AX} \cong \overline{BX}$

Prove: $\angle 1 \cong \angle 2$

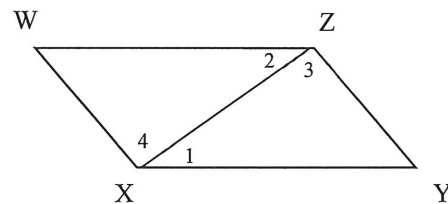


Statement
1. $\overline{AC} \cong \overline{BC}$
2. $\overline{AX} \cong \overline{BX}$
3. $\overline{CX} \cong \overline{CX}$
4. $\triangle AXC \cong \triangle BXC$
5. $\angle 1 \cong \angle 2$

Reason
1. Given
2. Given
3. Reflexive Property
4. SSS
5. CPCTC

6. **Given:** $\angle 1 \cong \angle 2$ and $\angle 3 \cong \angle 4$

Prove: $\overline{XY} \cong \overline{ZW}$

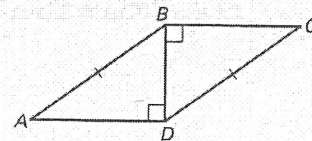


Statement
1. $\angle 1 \cong \angle 2$
2. $\angle 3 \cong \angle 4$
3. $\overline{XZ} \cong \overline{XZ}$
4. $\triangle XWZ \cong \triangle ZYX$
5. $\overline{XY} \cong \overline{ZW}$

Reason
1. Given
2. Given
3. Reflexive Property
4. ASA
5. CPCTC

7. **Given:** Look on Diagram

Prove: $\angle DAB \cong \angle BCD$



Statement
1. $\overline{BD} \perp \overline{BC}$ and $\overline{BD} \perp \overline{AD}$
2. $\angle DBG$ and $\angle BDA$ are Right \angle 's
3. $\triangle DBC$ and $\triangle BDA$ are Right \triangle 's
4. $\overline{AB} \cong \overline{CD}$
5. $\overline{BD} \cong \overline{DB}$
6. $\triangle DBC \cong \triangle BDA$
7. $\angle DAB \cong \angle BCD$

Reason
1. Given
2. Def ⁿ of Perpendicular Lines
3. Def ⁿ of Right Triangles
4. Given
5. Reflexive Property
6. HL
7. CPCTC