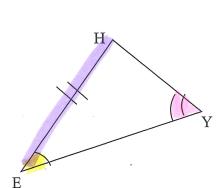
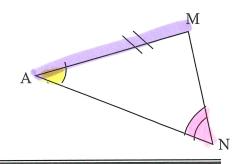


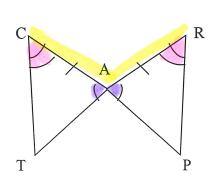
#1: \triangle HEY is congruent to \triangle MAN by \underline{AAS} What other parts of the triangles are congruent by CPCTC?





#2:





$$\Delta CAT \cong \underline{ARAP}$$
, by \underline{ASA}

THEREFORE:

#3:

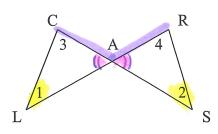
→ Given:

 $\overline{AC} \cong \overline{AR}$ and $\angle 1 \cong \angle 2$

Start

end

Prove: $\angle 3 \cong \angle 4$ need to prove $\cong As$ first!



Proof:

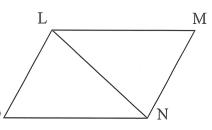
- 1. $AC \cong AR$
- 2. 4 至 4 2
- 3. $\angle CAL \cong \angle RAS$
- 4. $\triangle LCA \cong \triangle SRA$
- **5**. ∠3 ≅ ∠4

- 2. Given
- 3. <u>vertical <s are =</u>



Given: $\angle NLM \cong \angle LNO$ and $\angle OLN \cong \angle MNL$

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



Proof:

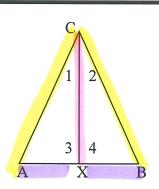
- 1. $\angle NLM \cong \angle LNO$
- 2. _____
- 3. _____
- 4. Δ LMN $\cong \Delta$ _____
- 5. _____

- 2. Given
- 3. Reflexive Property of \cong
- 4. _____
- 5. _____

#5

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

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



Proof:

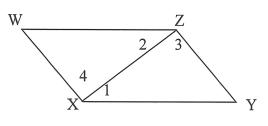
- 1. $AC \cong BC$ and $AX \cong BX$ 1. Given
- 2. $CX \cong CX$ 2. Reflexive Prop. of Congruence
- 3. ∆AXC ≅ ABY C
- 4. 1 = 42

- 3. <u>SSS</u>
- 4. CPCTC

#6

Given: $\angle 1 \cong \angle 2$ and $\angle 3 \cong \angle 4$

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



Proof:

- 2. $\overline{XZ} \simeq \overline{XZ}$
- 3. ∆XWZ ≅ _____
- 4. _____

- 1. Given
- 2. _____
- 3. _____