Warm-up:

1. Put your phones in the pouches/away
2. Take out your HW and HW Calendar
3. Complete the Warm-Up

Announcements

1. Please complete Delta Math to be able to increase your previous standard grades
2. What is happening tomorrow?
3. Do you actually know how standards based grading works?

What am I learning today?

Learning Objective 2B.4

How to use CPCTC.

What will I do to show that I have learned it?

I can...Prove two triangles are congruent to then be able to prove their corresponding parts are congruent.

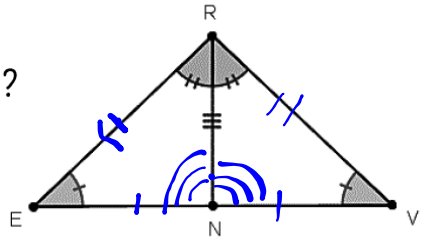
Corresponding **P**arts of **C**ongruent **T**riangles are **C**ongruent (**CPCTC**)

CPCTC is a **reason** used in a proof **** **AFTER** ****
two triangles have been proven ***CONGRUENT!!***

$\Delta ERN \cong \Delta VRN$ by AAS

What **other** parts of the triangles are congruent?

CPCTC
- $\overline{EN} \cong \overline{NV}$
- $\overline{RE} \cong \overline{RV}$
- $\angle RNE \cong \angle VNR$

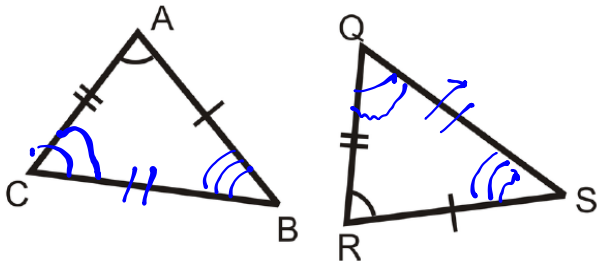


$\Delta CAB \cong$ ΔQRS by SAS

Therefore: $\angle C \cong \angle Q$ by CPCTC

$\angle B \cong \angle S$ by CPCTC

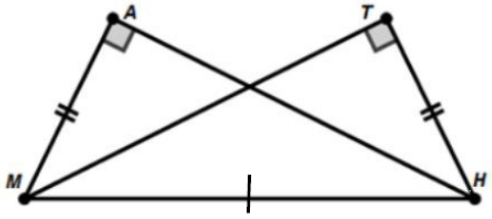
$\overline{CB} \cong \overline{QS}$ by CPCTC



Given: $\Delta MAH \cong \Delta HTM$ by HL

Prove: $\angle TMH \cong \angle AHM$

parts

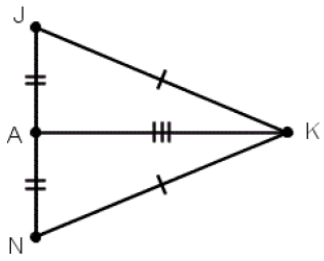


Statements	Reasons
1. $\Delta MAH \cong \Delta HTM$ by HL	1. Given
2. $\angle TMH \cong \angle AHM$	2. CPCTC

Given: $\Delta JAK \cong \Delta NAK$ by SSS

Prove: $\angle JKA \cong \angle NKA$

parts

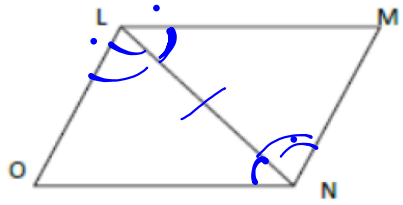


Statements	Reasons
1. $\Delta JAK \cong \Delta NAK$ by SSS	1. Given
2. $\angle JKA \cong \angle NKA$	2. CPCTC

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

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

↑ parts

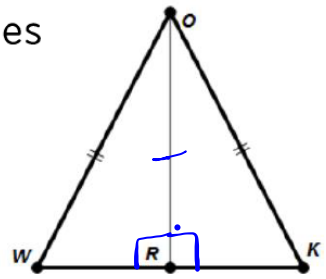


Statements	Reasons
1. $\angle NLM \cong \angle LNO$	1. Given
2. $\angle OLN \cong \angle MNL$	2. Given
3. $LN \cong LN$	3. Reflexive Prop.
4. $\triangle OLN \cong \triangle MNL$	4. ASA
5. $\angle M \cong \angle O$	5. CPCTC

Given: $\overline{WO} \cong \overline{KO}$; $\angle WRO$ and $\angle KRO$ are right angles

Prove: $\overline{WR} \cong \overline{KR}$

↑ parts



Statements	Reasons
1. $WO \cong KO$	1. Given
2. $\angle WRO$ & $\angle KRO$ are right angles	2. Given
3. $OR \cong OR$	3. Reflexive Prop.
4. $\angle WRO \cong \angle KRO$	4. All right angles are $\cong$
5. $\triangle WRO \cong \triangle KRO$	5. HL
6. $WR \cong KR$	6. CPCTC

Classwork:

Complete the classwork about using CPCTC.

HW: On top of the bin.