

Geometry

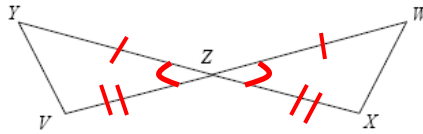
Unit One B: Flowchart Proofs #2 (IC9)

Name: _____

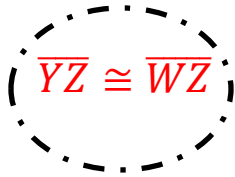
Date: _____ Period: _____

Given: $\overline{YZ} \cong \overline{WZ}$; $\overline{ZV} \cong \overline{ZX}$

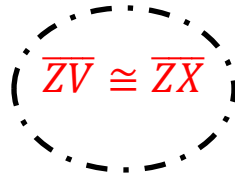
Diagram:



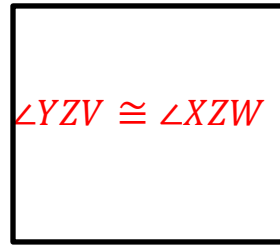
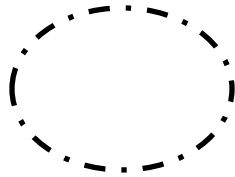
Prove: $\triangle VYZ \cong \triangle XWZ$



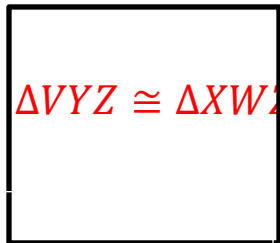
Given



Given



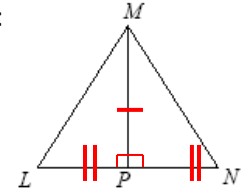
Vert \angle 's \cong



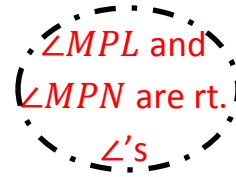
SAS

Given: $\angle MPL$ and $\angle MPN$ are right angles; $\overline{LP} \cong \overline{NP}$

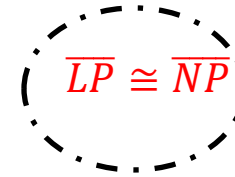
Diagram:



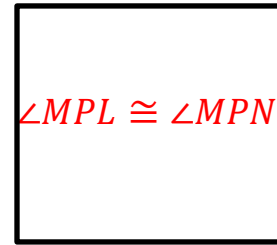
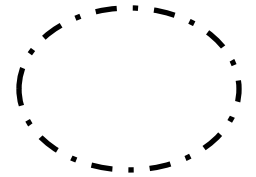
Prove: $\triangle LMP \cong \triangle NMP$



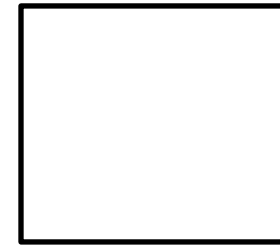
Given



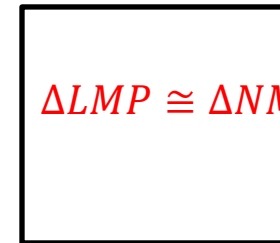
Given



All rt. \angle 's \cong



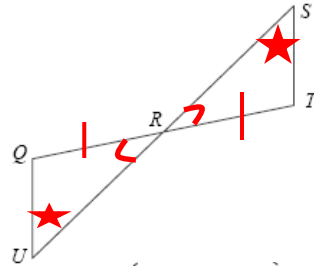
Reflexive Prop



SAS

Given: R is the midpoint of \overline{QT} ;
 $\angle U \cong \angle S$

Diagram:



Prove: $\Delta RQU \cong \Delta RTS$

R is midpt
of \overline{QT}

$\angle U \cong \angle S$

Given

Given

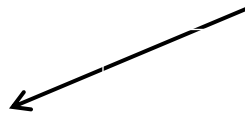


$\overline{QR} \cong \overline{TR}$

$\angle QRU \cong \angle TRS$

Defn of midpoint

Vert. \angle 's \cong

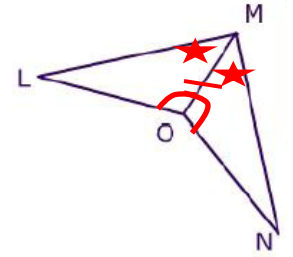


$\Delta RQU \cong \Delta RTS$

AAS

Given: \overline{OM} bisects $\angle LMN$;
 $\angle LOM \cong \angle NOM$

Diagram:



Prove: $\Delta LMO \cong \Delta NMO$

\overline{OM} bisects
 $\angle LMN$

$\angle LOM \cong \angle NOM$

Given

Given

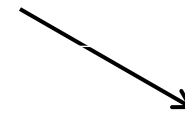


$\angle LMO \cong \angle NMO$

$\overline{MO} \cong \overline{MO}$

Defn \angle bisector

Reflexive



$\Delta LMO \cong \Delta NMO$

ASA