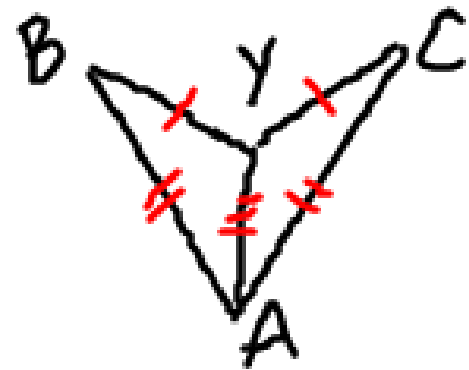


Proofs on Ch. 4

Quiz Wednesday

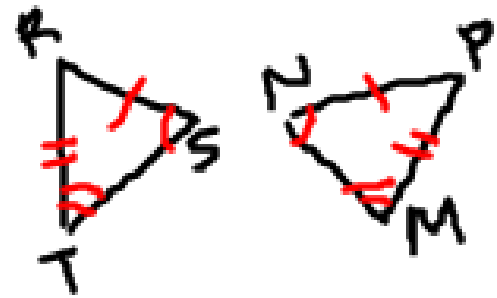
1. Given: $\overline{BY} \cong \overline{CY}$, $\overline{BA} \cong \overline{CA}$

Prove: $\triangle BYA \cong \triangle CYA$



Statements	Reasons
1. $\overline{BY} \cong \overline{CY}$ $\overline{BA} \cong \overline{CA}$	1. Given
2. $\overline{YA} \cong \overline{YA}$	2. Reflexive
3. $\triangle BYA \cong \triangle CYA$	3. SSS

2. Given: $\overline{RS} \cong \overline{PN}$, $\overline{RT} \cong \overline{MP}$,
 $\angle S \cong \angle N$, $\angle T \cong \angle M$

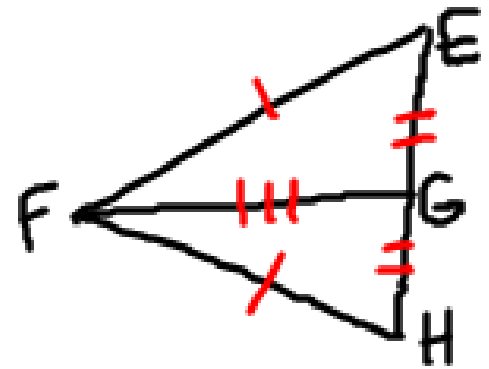


Prove: $\triangle RST \cong \triangle PNM$

Statements	Reasons
1. $\overline{RS} \cong \overline{PN}$, $\overline{RT} \cong \overline{MP}$, $\angle S \cong \angle N$, $\angle T \cong \angle M$	1. Given
2. $\angle R \cong \angle P$	2. Third angle Thm.
3. $\triangle RST \cong \triangle PNM$	3. SAS

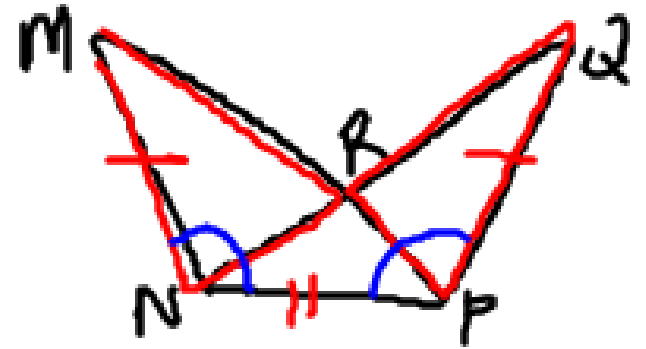
3. Given: $\overline{EF} \cong \overline{HF}$, G is the mdpt. of \overline{EH}

Prove: $\triangle EFG \cong \triangle HFG$



Statements	Reasons
1. $\overline{EF} \cong \overline{HF}$ G is mdpt. of EH	1. Given
2. $\overline{EG} \cong \overline{HG}$	2. defn. of mdpt.
3. $\overline{FG} \cong \overline{FG}$	3. Reflexive
4. $\triangle EFG \cong \triangle HFG$	4. SSS

EC: Given: $\triangle MRN \cong \triangle QRP$
 $\angle MNP \cong \angle QPN$
 Prove: $\triangle MNP \cong \triangle QPN$



Statements	Reasons
1. $\triangle MRN \cong \triangle QRP$ $\angle MNP \cong \angle QPN$	1. Given
2. $\overline{MN} \cong \overline{QP}$	2. CPCTC
3. $\overline{NP} \cong \overline{NP}$	3. Reflexive
4. $\triangle MNP \cong \triangle QPN$	4. SAS