

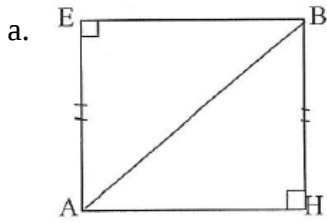
Name:

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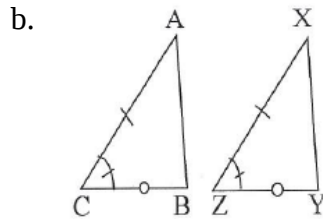
# HW #5-7

1. Look at the markings in the diagram. Add your own for things such as “reflexive” and “vertical angles” etc. Then, state if the triangles are congruent by  $SSS \cong$ ,  $SAS \cong$ ,  $HL \cong$ ,  $ASA \cong$ , or  $AAS \cong$  and complete the congruence statement.



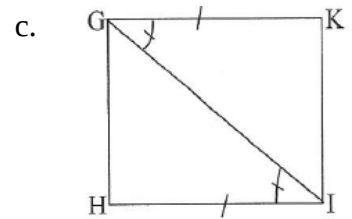
$\Delta s \cong$  by \_\_\_\_\_

$\Delta HBA \cong \Delta$  \_\_\_\_\_



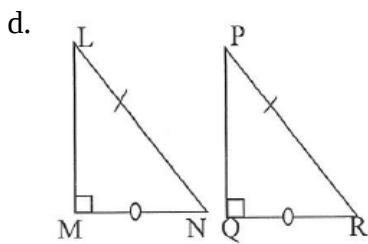
$\Delta s \cong$  by \_\_\_\_\_

$\Delta YZX \cong \Delta$  \_\_\_\_\_



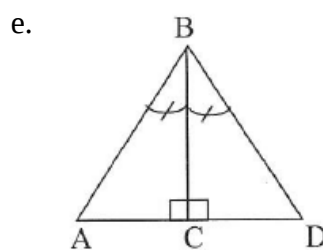
$\Delta s \cong$  by \_\_\_\_\_

$\Delta IKG \cong \Delta$  \_\_\_\_\_



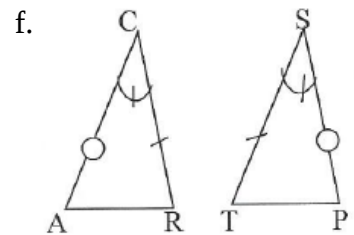
$\Delta s \cong$  by \_\_\_\_\_

$\Delta LMN \cong \Delta$  \_\_\_\_\_



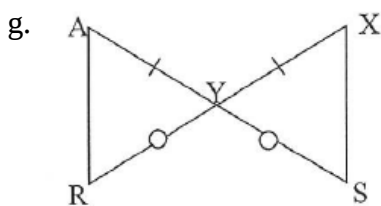
$\Delta s \cong$  by \_\_\_\_\_

$\Delta ACB \cong \Delta$  \_\_\_\_\_



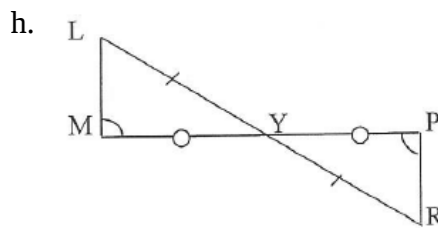
$\Delta s \cong$  by \_\_\_\_\_

$\Delta PTS \cong \Delta$  \_\_\_\_\_



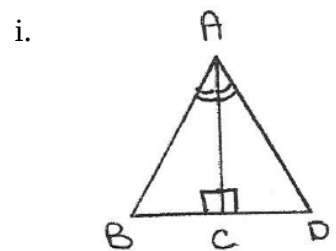
$\Delta s \cong$  by \_\_\_\_\_

$\Delta AYR \cong \Delta$  \_\_\_\_\_



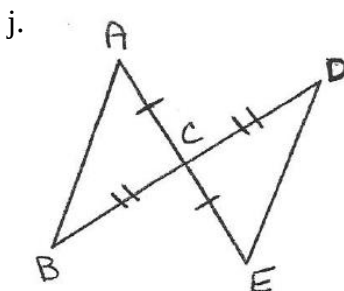
$\Delta s \cong$  by \_\_\_\_\_

$\Delta LMY \cong \Delta$  \_\_\_\_\_



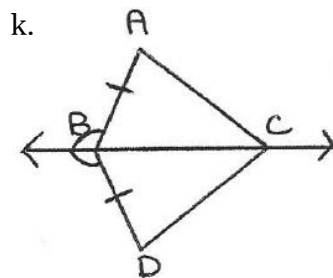
$\Delta s \cong$  by \_\_\_\_\_

$\Delta ABC \cong \Delta$  \_\_\_\_\_



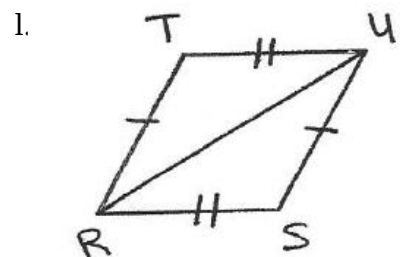
$\Delta s \cong$  by \_\_\_\_\_

$\Delta CDE \cong \Delta$  \_\_\_\_\_



$\Delta s \cong$  by \_\_\_\_\_

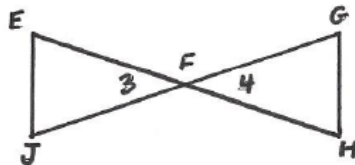
$\Delta DCB \cong \Delta$  \_\_\_\_\_



$\Delta s \cong$  by \_\_\_\_\_

$\Delta RSU \cong \Delta$  \_\_\_\_\_

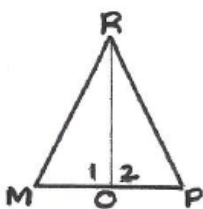
2. **Given:**  $\angle E \cong \angle H$   
 $\overline{EF} \cong \overline{HF}$   
**Prove:**  $\triangle EFJ \cong \triangle HFG$



Statements

Reasons

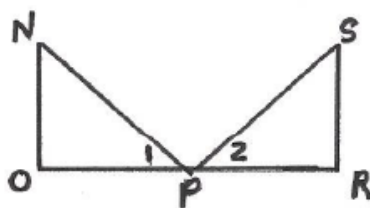
3. **Given:**  $\angle 1 \cong \angle 2$   
O is the midpoint of  $\overline{MP}$   
**Prove:**  $\triangle MRO \cong \triangle PRO$



Statements

Reasons

4. **Given:**  $\angle N$  comp  $\angle 1$   
 $\angle S$  comp  $\angle 2$   
 $\angle 1 \cong \angle 2$   
 $\overline{NP} \cong \overline{SP}$   
**Prove:**  $\triangle NOP \cong \triangle SRP$



Statements

Reasons

