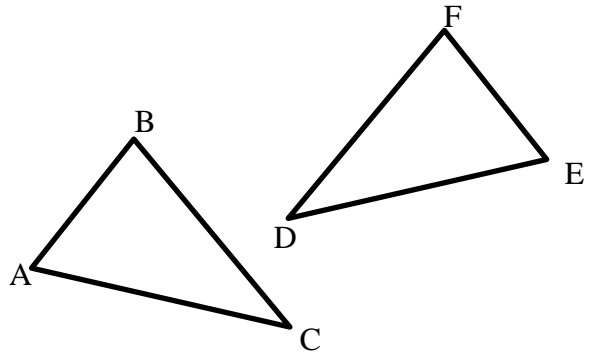


Geometry:  
Proving Triangles Congruent

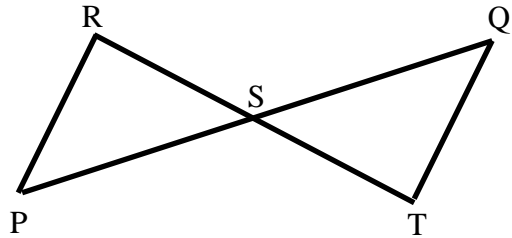
Name:

Period:

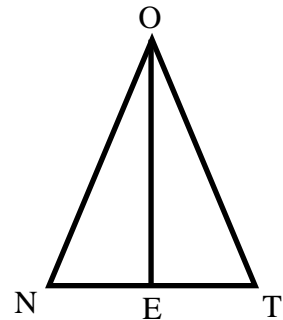
1. Given:  $\overline{AB} \cong \overline{EF}$   
 $\angle B \cong \angle F$   
 $\angle C \cong \angle D$   
Prove:  $\triangle ABC \cong \triangle EFD$



2. Given:  $\overline{RS} \cong \overline{TS}$   
 $\overline{PS} \cong \overline{QS}$   
Prove:  $\triangle RSP \cong \triangle TSQ$

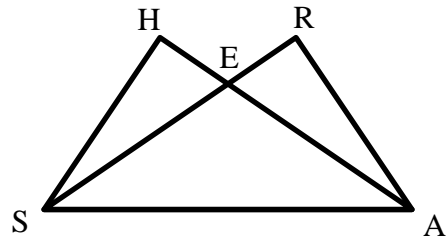


3. Given:  $\overline{NO} \cong \overline{TO}$   
 $m\angle NEO = 90^\circ$   
 $m\angle TEO = 90^\circ$   
Prove:  $\triangle NOE \cong \triangle TOE$



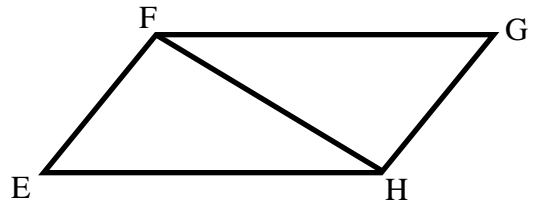
4. Given:  $\angle HAS \cong \angle RSA$   
 $\angle RAS \cong \angle HSA$

Prove:  $\triangle HSA \cong \triangle RAS$



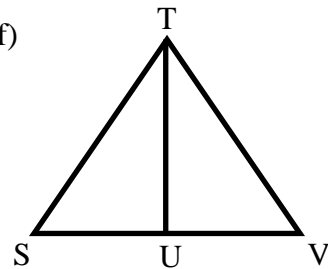
5. Given:  $\angle E \cong \angle G$   
 $\overline{FG} \parallel \overline{EH}$

Prove:  $\overline{EH} \cong \overline{GF}$



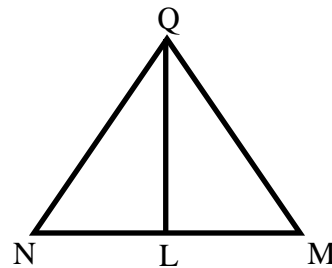
6. Given:  $\overline{TU}$  is a median (divides  $\overline{SV}$  in half)  
 $\overline{ST} \cong \overline{TV}$

Prove:  $\triangle STU \cong \triangle VTU$

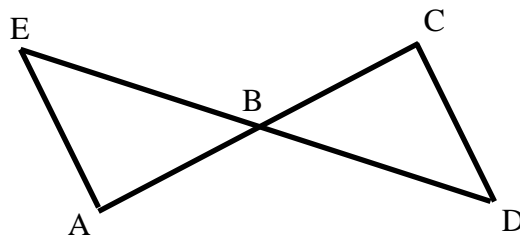


7. Given:  $\overline{QL}$  bisects  $\angle NQM$  (divides  $\angle NQM$  in half)  
 $\overline{NQ} \cong \overline{MQ}$

Prove:  $\triangle NQL \cong \triangle MQL$

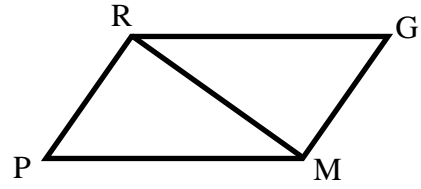


8. Given:  $\overline{AE} \cong \overline{CD}$   
B is the midpoint of  $\overline{AC}$   
B is the midpoint of  $\overline{ED}$
- Prove:  $\angle E \cong \angle D$



9. Given:  $\overline{PR} \parallel \overline{MG}$   
 $\overline{PM} \parallel \overline{RG}$

Prove:  $\overline{PR} \cong \overline{GM}$



10. Given:  $\overline{RV} \parallel \overline{SU}$   
 $S$  is the midpoint of  $\overline{TR}$   
 $\overline{TU} \parallel \overline{SV}$

Prove:  $\triangle TSU \cong \triangle SRV$

