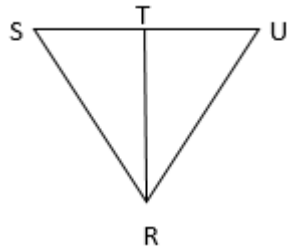


Assignment 2.5: Triangle Proofs

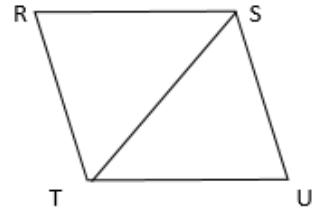
Name: _____

Math 2

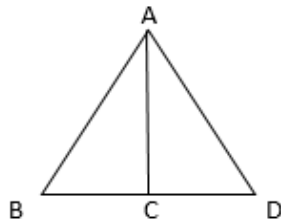
1. Given: $\overline{RS} \cong \overline{RU}$, \overline{RT} bisects \overline{SU}
Prove: $\triangle RST \cong \triangle RUT$



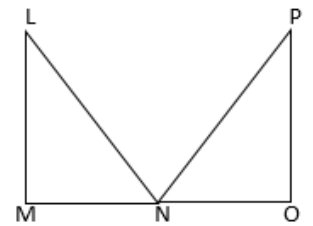
2. Given: $\overline{RS} \cong \overline{UT}$, $\overline{RT} \cong \overline{SU}$
Prove: $\triangle RST \cong \triangle UTS$



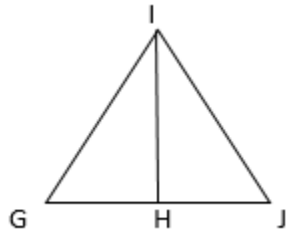
3. Given: $\angle B \cong \angle D$
 \overline{AC} is perpendicular to \overline{BD}
Prove: $\triangle ABC \cong \triangle ADC$



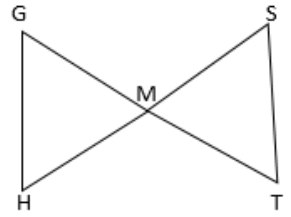
4. Given: $\overline{LM} \cong \overline{PO}$, $\angle L \cong \angle P$,
 $\angle M$ & $\angle O$ are right
Prove: $\triangle LMN \cong \triangle PON$



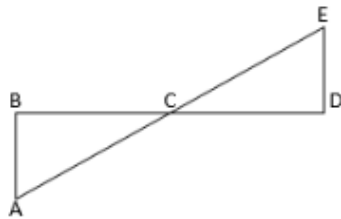
5. Given: H is the midpoint of \overline{GJ} , $\overline{GI} \cong \overline{IJ}$
 Prove: $\triangle GHI \cong \triangle JHI$



6. Given: M is the midpoint of \overline{GT} ,
 M is the midpoint of \overline{HS}
 Prove: $\triangle GMH \cong \triangle TMS$



7. Given: $\sphericalangle B$ & $\sphericalangle D$ are right, \overline{AE} bisects \overline{BD}
 Prove: $\triangle ABC \cong \triangle EDC$



8. Given: $\overline{DC} \perp \overline{AE}$, $\overline{DE} \cong \overline{AC}$,
 B is the midpoint of \overline{AE}
 Prove: $\triangle BDE \cong \triangle BCA$

