

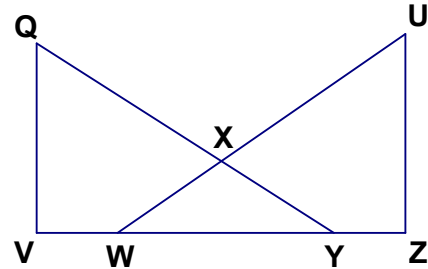
Name _____
Mr. Schlansky

Date _____
Geometry

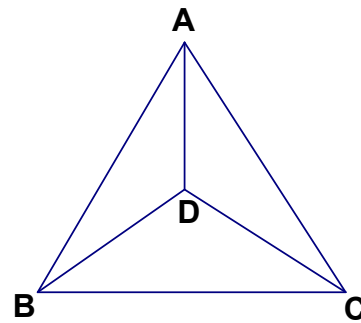


Triangle Proofs with Additional Tools

1. Given: $\overline{QV} \cong \overline{UZ}$, $\overline{VW} \cong \overline{YZ}$, $\overline{YQ} \cong \overline{WU}$
Prove: $\angle Q \cong \angle U$

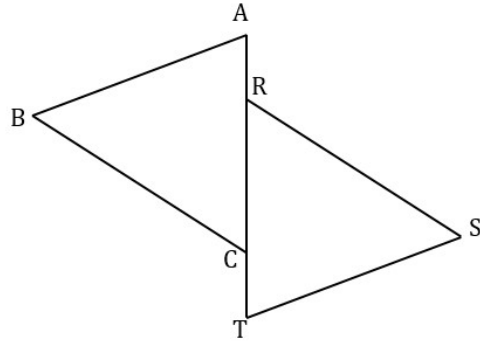


2. Given: $\angle ABC \cong \angle ACB$, \overline{AD} bisects $\angle BAC$
Prove: $\overline{BD} \cong \overline{DC}$



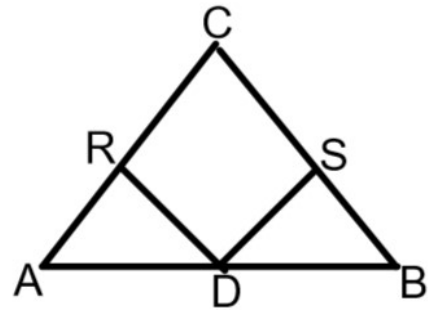
3. Given: $\angle B \cong \angle S$, $\overline{AB} \parallel \overline{ST}$, $\overline{AR} \cong \overline{TC}$

Prove: $\overline{BC} \cong \overline{SR}$

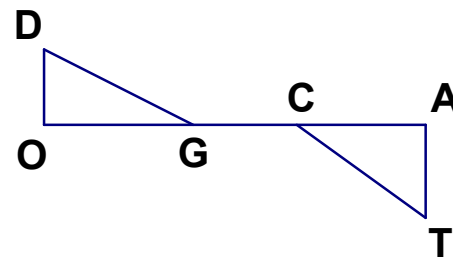


4. Given: In $\triangle ABC$, $\overline{CA} \cong \overline{CB}$, $\overline{AR} \cong \overline{BS}$, $\overline{DR} \perp \overline{AC}$,
and $\overline{DS} \perp \overline{BC}$

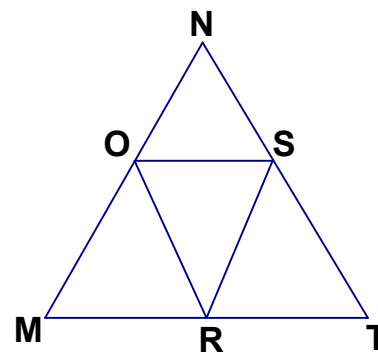
Prove: $\overline{DR} \cong \overline{DS}$



5. Given: $\overline{DO} \perp \overline{OA}$, $\overline{TA} \perp \overline{OA}$, $\overline{DO} \cong \overline{TA}$, $\overline{OC} \cong \overline{AG}$
 Prove: $\overline{DG} \cong \overline{TC}$

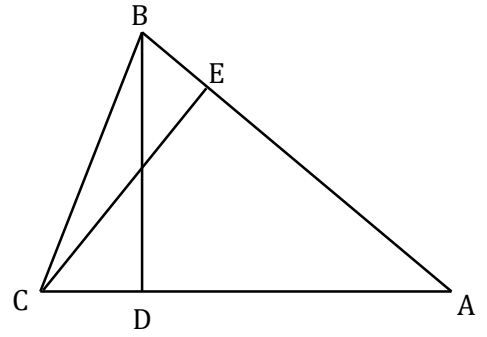


6. Given: $\overline{MN} \cong \overline{NT}$, $\angle ROS \cong \angle RSO$, $\angle ORM \cong \angle SRT$
 Prove: $\triangle MOR \cong \triangle TSR$



7. Given: $\overline{AB} \cong \overline{AC}$, $\overline{CE} \perp \overline{AB}$, $\overline{BD} \perp \overline{AC}$

Prove: $\overline{CE} \cong \overline{BD}$



8. Given: $\overline{DC} \parallel \overline{AB}$, $\overline{AE} \cong \overline{CF}$, $\overline{DE} \perp \overline{AC}$, $\overline{BF} \perp \overline{AC}$
Prove: $\triangle ABF \cong \triangle CDE$

