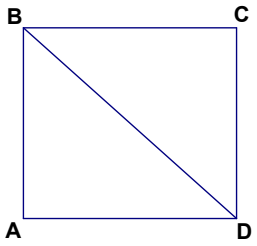
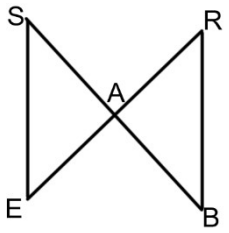
Name _____ Date _____
Mr. Schlansky Geometry

Triangle Proofs Practice

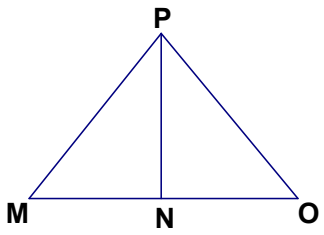
1. Given: $\overline{BD}$ bisects $\angle CDA$
   $\overline{AD} \cong \overline{DC}$
   Prove: $\overline{BA} \cong \overline{BC}$



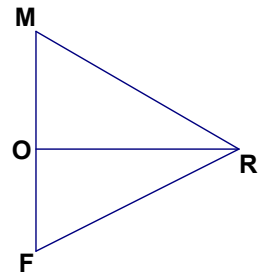
2. Given: $\overline{SB}$ and $\overline{RE}$ bisect each other
   Prove: $\overline{SE} \cong \overline{RB}$



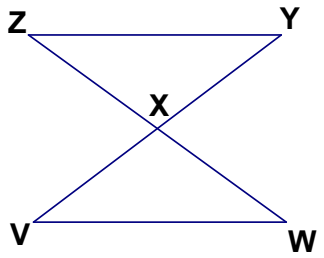
3. Given: $\overline{PN} \perp \overline{MO}$
   $\overline{PM} \cong \overline{PO}$
   Prove: $\angle PMN \cong \angle PON$



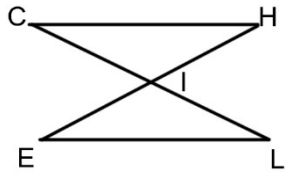
4. Given: $\overline{OR}$ bisects $\angle FRM$
$\angle F \cong \angle M$
Prove: $\Delta MOR \cong \Delta FOR$



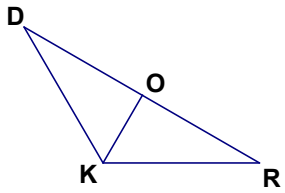
5. Given: X is midpoint of $\overline{WZ}$
$\angle W \cong \angle Z$
Prove: $\angle V \cong \angle Y$



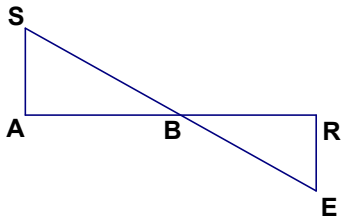
6. Given: $\overline{CH} \parallel \overline{LE}$ and $\overline{CH} \cong \overline{LE}$
Prove $\overline{CI} \cong \overline{IL}$



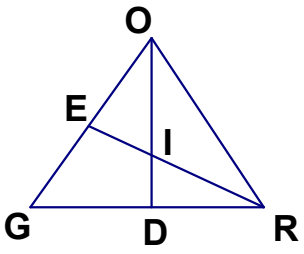
7. Given: $\overline{KO}$ is the perpendicular bisector of $\overline{DR}$
Prove: $\angle DKO \cong \angle RKO$



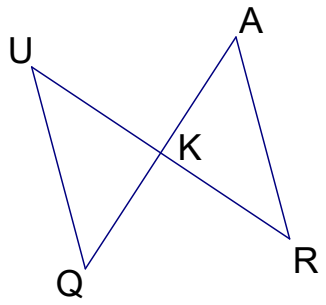
8. Given: $\overline{SA} \perp \overline{AR}$, $\overline{AR} \perp \overline{RE}$, B is the midpoint of $\overline{AR}$
Prove: $\Delta SAB \cong \Delta ERB$



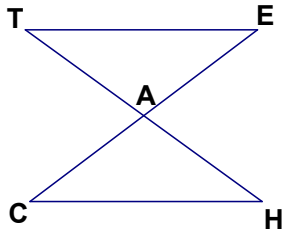
9. Given: $\overline{ER}$ bisects $\angle$ORG, $\overline{ER}$ is an altitude
Prove: $\Delta ORE \cong \Delta GRE$



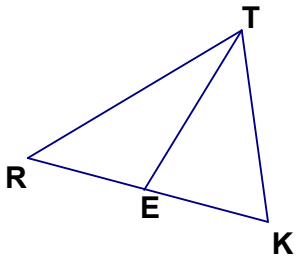
10. Given: $\overline{QA}$ bisects $\overline{UR}$
$\angle Q \cong \angle A$
Prove: $\overline{QU} \cong \overline{AR}$



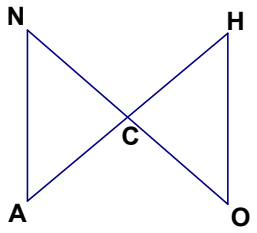
11. Given: $\overline{TH}$ *and* $\overline{CE}$ bisect each other at A
Prove: $\Delta TAE \cong \Delta CAH$



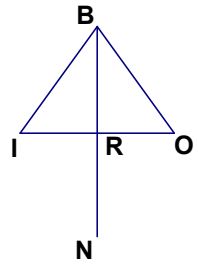
12. Given: $\overline{TE}$ is a median, $\overline{TR} \cong \overline{TK}$
Prove: $\angle$RTE$\cong$ $\angle$KTE



13. Given: $\overline{NO}$ and $\overline{HA}$ bisect each other
Prove: $\angle N \cong \angle O$



14. Given: $\overline{NB}$ bisects $\overline{IO}$, $\overline{BR}$ is an altitude
Prove: $\overline{IB} \cong \overline{OB}$



15. Given: $\overline{QR}$ is the perpendicular bisector of $\overline{NP}$
Prove: $\angle NQR \cong \angle PQR$