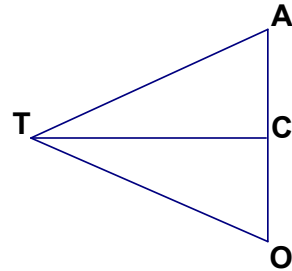


Name _____
Mr. Schlansky

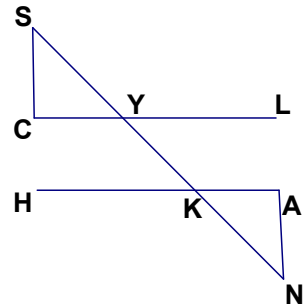
Date _____
Geometry

Similar Triangles Proofs

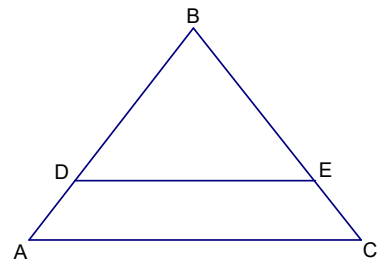
1. Given: Altitude \overline{TC} bisects $\angle ATO$
Prove: $\triangle TCA \sim \triangle TCO$



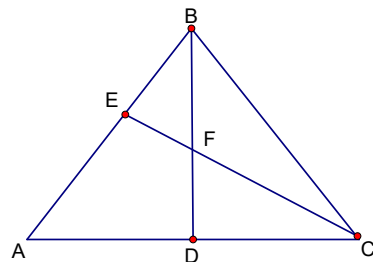
2. Given: $\overline{CL} \parallel \overline{HA}$, $\angle CSY \cong \angle ANK$
Prove: $\triangle SCY \sim \triangle NAK$



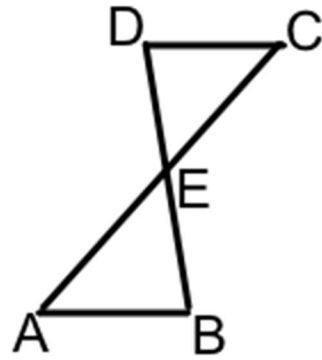
3. Given: $\overline{DE} \parallel \overline{AC}$
Prove: $\triangle BDE \sim \triangle BAC$



4. Given: Altitudes $\overline{CE} \perp \overline{AB}$ and $\overline{BD} \perp \overline{AC}$
Prove: $\triangle DFC \sim \triangle FBE$



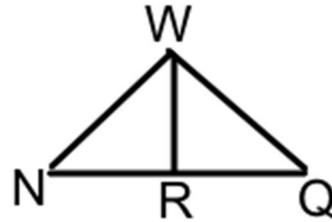
5. Given $\overline{AB} \parallel \overline{DC}$
 Prove: $\triangle ABE \sim \triangle CDE$



6. Given: $\overline{BC} \perp \overline{AC}$
 $\overline{DE} \perp \overline{AB}$
 Prove: $\triangle ABC \sim \triangle ADE$



7. Given: \overline{WR} bisects $\angle NWQ$
 $\overline{WN} \cong \overline{WQ}$
 Prove: $\triangle RWN \sim \triangle RWQ$



8. Given: \overline{CD} is an altitude
 $\overline{BC} \perp \overline{AC}$
 Prove: $\triangle ADC \sim \triangle ACB$

