

Name _____

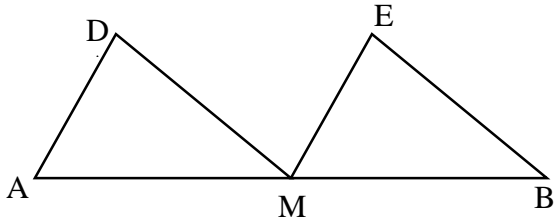
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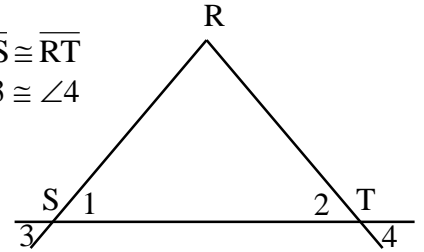
Revenge of the Proofs

Write two-column proofs for the following. Make sure to number each step.

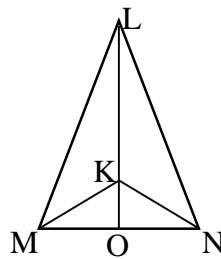
- 1) Given: $\overline{AD} \parallel \overline{ME}$; $\overline{MD} \parallel \overline{BE}$
 M is the midpoint of \overline{AB}
 Prove: $\overline{MD} \cong \overline{BE}$



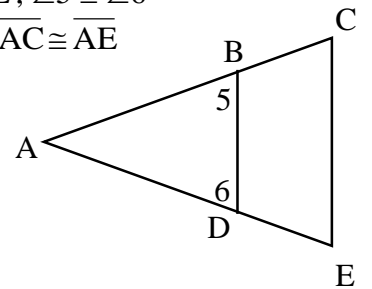
- 3) Given: $\overline{RS} \cong \overline{RT}$
 Prove: $\angle 3 \cong \angle 4$



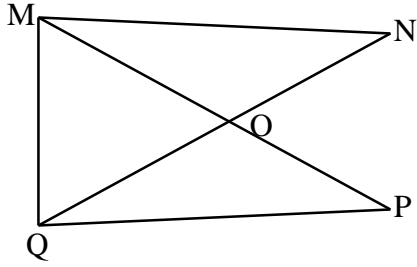
- 2) Given: $\overline{LM} \cong \overline{LN}$; $\overline{KM} \cong \overline{KN}$
 \overline{KO} bisects $\angle MKN$
 Prove: \overline{LO} bisects $\angle MLN$



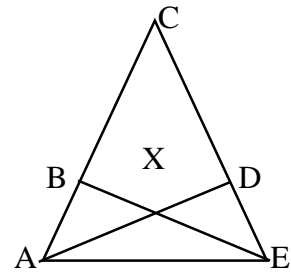
- 4) Given: $\overline{BD} \parallel \overline{CE}$, $\angle 5 \cong \angle 6$
 Prove: $\overline{AC} \cong \overline{AE}$



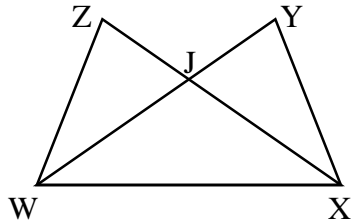
- 5) Given: $\overline{MN} \cong \overline{QP}$, $\angle N \cong \angle P$
 Prove: $\angle OMQ \cong \angle OQM$



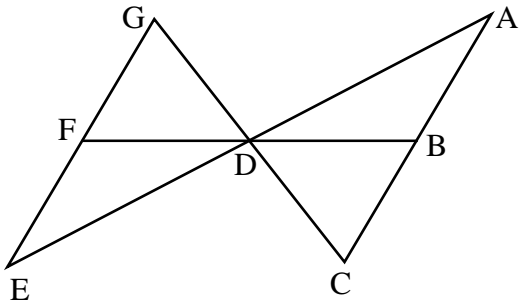
- 7) Given: $\overline{CA} \cong \overline{CE}$, $\overline{BA} \cong \overline{DE}$
 Prove: $\angle ABE \cong \angle EDA$



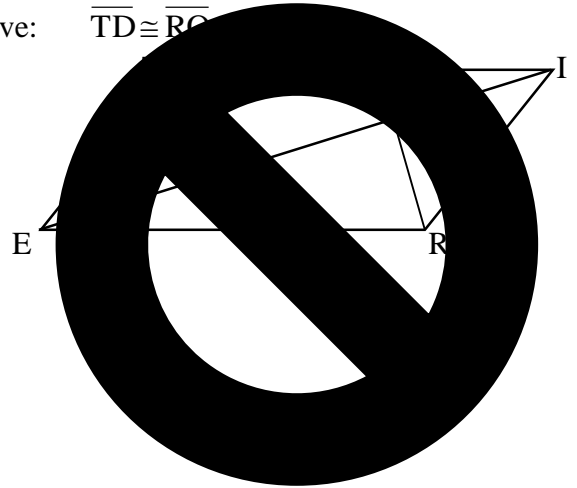
- 6) Given: $\angle ZWX \cong \angle YXW$, $\angle ZXW \cong \angle YWX$
 Prove: $\angle Z \cong \angle Y$



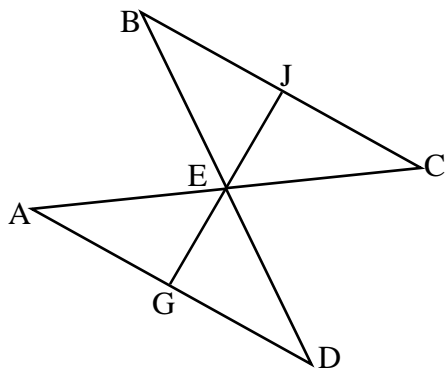
- 8) Given: $\overline{AD} \cong \overline{ED}$, D is the midpoint of \overline{BF}
 Prove: $\triangle ADC \cong \triangle EDG$



- 9) Given: $\overline{ER} \cong \overline{IT}$, $\overline{ET} \cong \overline{IR}$, $\angle TDI$ & $\angle ROE$ are right angles.
 Prove: $\overline{TD} \cong \overline{RD}$



- 10) Given: E is the midpoint of \overline{AC} and \overline{DB}
Prove: $\triangle GED \cong \triangle JEB$



- 11) Given: $\overline{AB} \cong \overline{DC}$, E is the midpoint of \overline{AD} ,
 $\overline{CE} \cong \overline{BE}$

Prove: $\overline{AC} \cong \overline{DB}$

