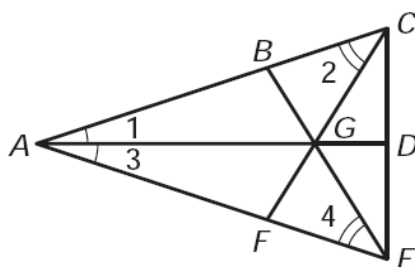


Name: _____

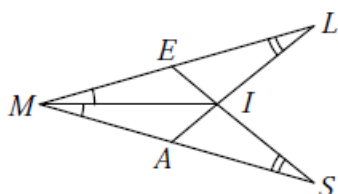
AAS, HA, LL and HL Theorems

In the diagram, $\angle 1 \cong \angle 3$ and $\angle 2 \cong \angle 4$



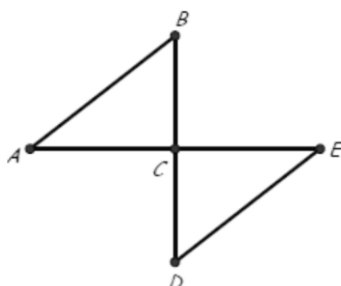
- 1) Prove that $\triangle VAGC \cong \triangle VAGE$
- 2) Prove that $\triangle VBCG \cong \triangle VFEG$
- 3) Prove that $\triangle VCDG \cong \triangle VEDG$

In the diagram, $\angle DEMI \cong \angle DAMI$ and $\angle DMLA \cong \angle DMSE$



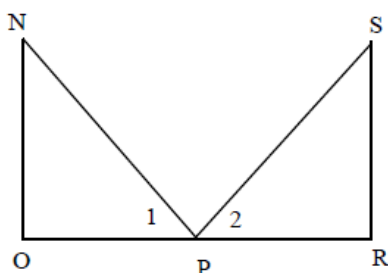
- 4) Prove that $\triangle VMIL \cong \triangle VMIS$
- 5) Prove that $\triangle VEIL \cong \triangle VAIS$

- 6) Given: $\overline{AB} \cong \overline{ED}$
 C is the midpoint of \overline{AE}
 $\overline{AE} \perp \overline{BD}$



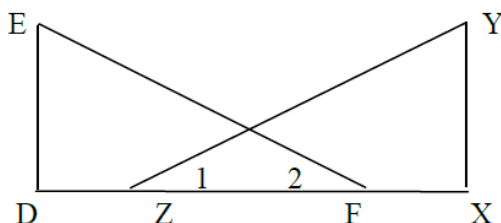
Prove: $\triangle BAC \cong \triangle DEC$

- 7) Given: $\overline{NO} \cong \overline{OR}$
 $\overline{NO} \perp \overline{OR}$
 $\overline{SR} \perp \overline{OR}$
 $\angle 1 \cong \angle 2$



Prove: $\triangle NPO \cong \triangle SPR$

- 8) Given: $\overline{EF} \cong \overline{YZ}$
 $\overline{YX} \perp \overline{DX}$
 $\overline{ED} \perp \overline{DX}$
 $\angle DE \cong \angle YZ$



Prove: $\triangle EDF \cong \triangle YXZ$