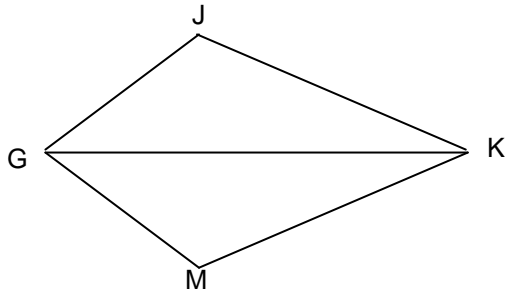


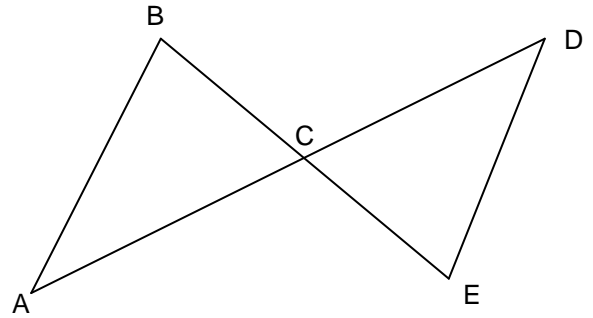
PreAP Geometry – in class proofs

PROVE THE FOLLOWING:

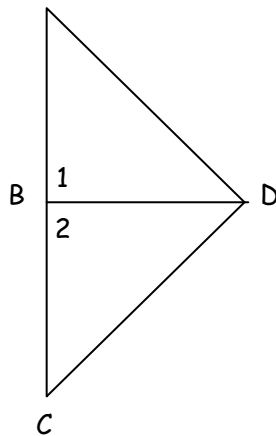
1. GIVEN: \overline{GK} bisects $\angle JGM$; $\overline{GJ} \cong \overline{GM}$
 PROVE: $\triangle GJK \cong \triangle GMK$



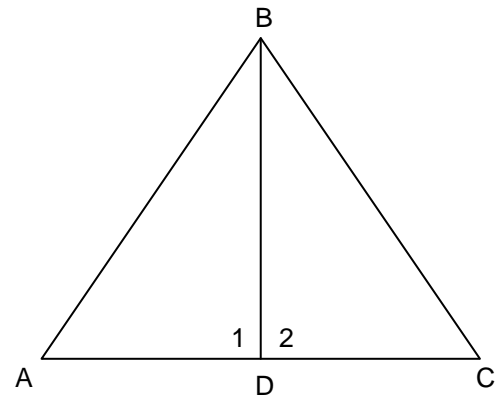
3. GIVEN: C is the midpoint of \overline{BE} and \overline{AD}
 PROVE: $\triangle ABC \cong \triangle DEC$



2. GIVEN: $\overline{AC} \perp \overline{BD}$, $\overline{AD} \cong \overline{CD}$
 PROVE: $\triangle ABD \cong \triangle CBD$

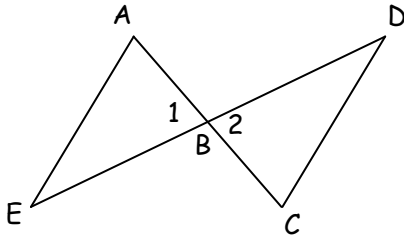


4. GIVEN: $\angle A \cong \angle C$; \overline{BD} bisects $\angle ABC$
 PROVE: $\triangle ABD \cong \triangle CBD$

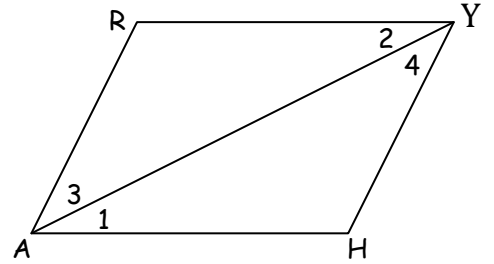


5. GIVEN: B is the midpoint of \overline{AC}
 B is the midpoint of \overline{ED}

PROVE: $\angle A \cong \angle C$

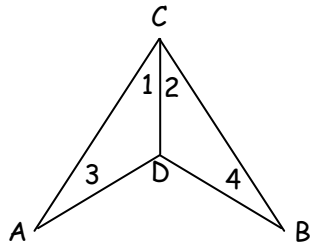


7. GIVEN: $\overline{RY} \parallel \overline{HA}$; $\overline{RY} \cong \overline{HA}$
 PROVE: $\triangle RAY \cong \triangle HYA$



6. GIVEN: $\overline{AC} \cong \overline{BC}$
 \overline{CD} bisects $\angle ACB$

PROVE: $\angle 3 \cong \angle 4$



8. GIVEN: $\overline{RN} \perp \overline{NA}$; $\overline{RY} \perp \overline{AY}$;
 $\overline{RN} \cong \overline{AY}$

PROVE: $\triangle RYA \cong \triangle ANR$

