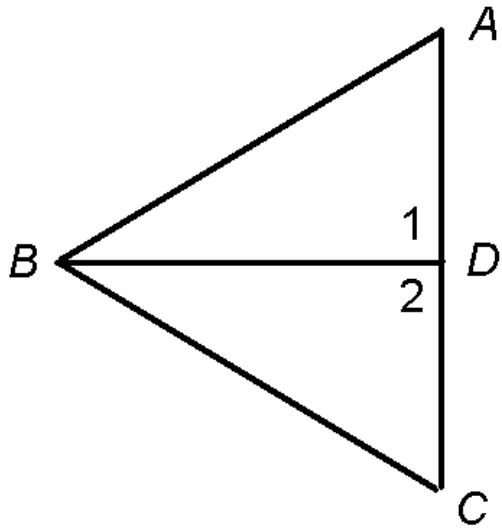


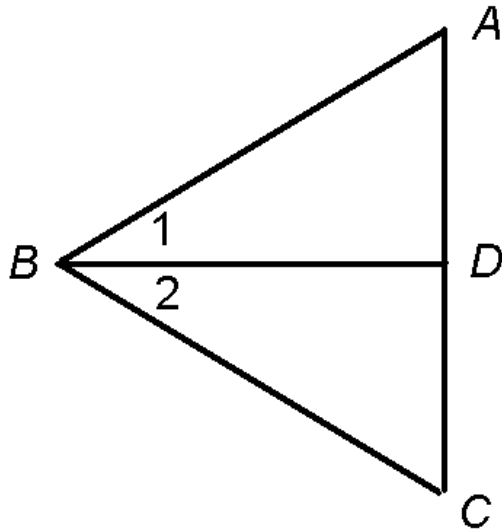
DIRECTIONS: Write two-column proofs. Draw on the diagrams!



Given:  $\overline{AD} \cong \overline{CD}$  ;

$\overline{AB} \cong \overline{CB}$

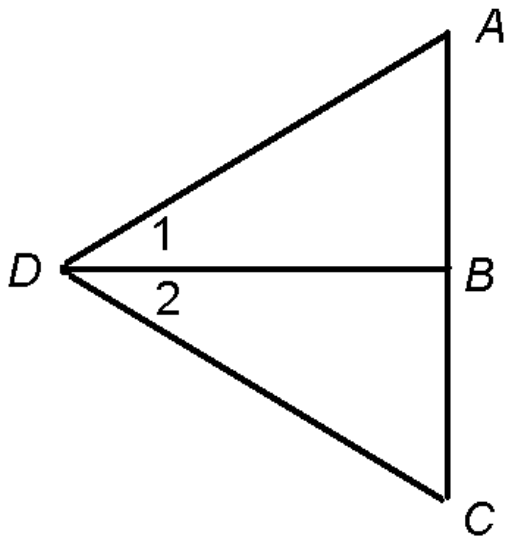
Prove:  $\overline{BD} \perp \overline{AC}$



Given:  $\overline{AB} \cong \overline{CB}$  ;

$\angle 1 \cong \angle 2$

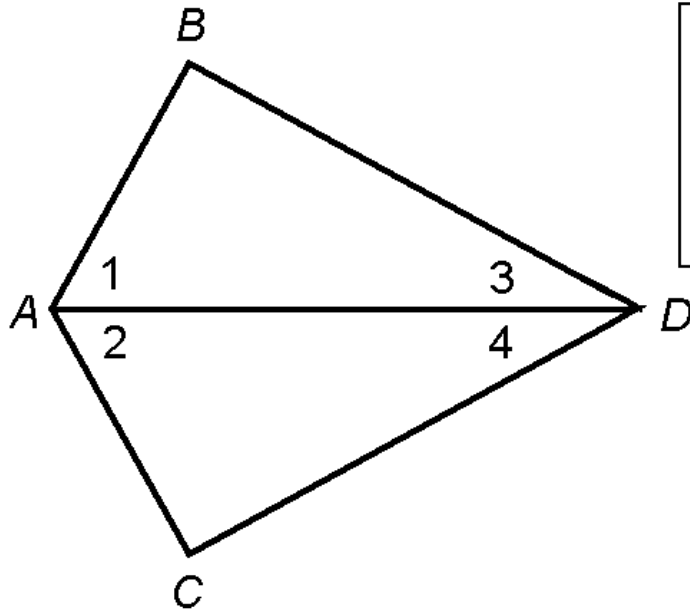
Prove:  $\overline{BD}$  bisects  $\overline{AC}$



Given:  $\overline{AD} \cong \overline{CD}$  ;

$\overline{DB}$  bisects  $\angle CDA$

Prove:  $\overline{AC} \perp \overline{BD}$



Given:  $\overline{BD} \cong \overline{DC}$  ;

$\angle 3 \cong \angle 4$

Prove:  $\overline{AD}$  bisects  $\angle BAC$