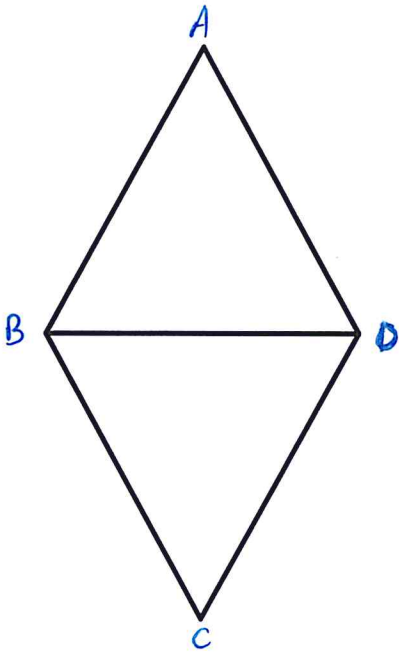


Geometric Proofs
Emphasis on Congruence by Angle – Angle – Side

Prove each of the following using Angle – Angle – Side:

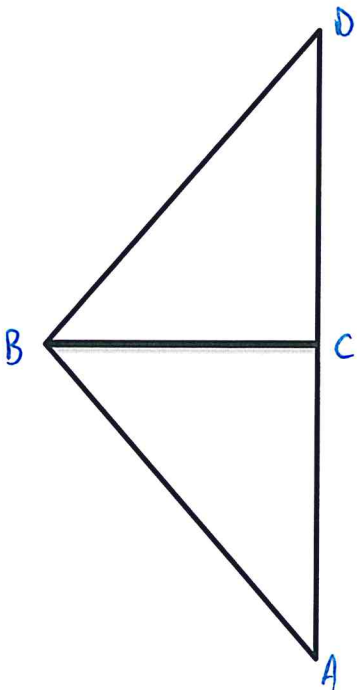
1. Given: $\overline{AB} \parallel \overline{CD}$
 $\overline{DA} \parallel \overline{BC}$
 $\overline{AD} \cong \overline{CB}$

Prove: $\triangle ABC \cong \triangle DCB$



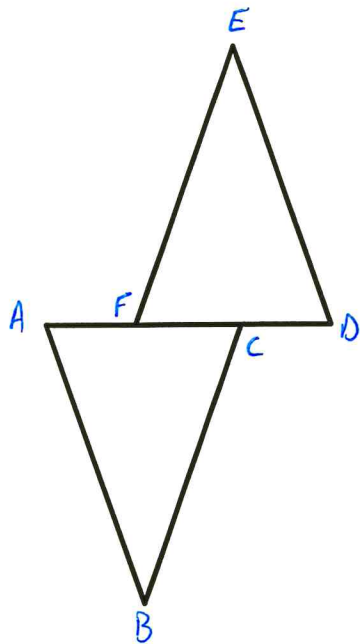
2. Given: $\overline{BC} \perp \overline{AD}$
 $\triangle ABD$ is an Isosceles Triangle

Prove: $\triangle ABC \cong \triangle DCB$



3. Given: $\overline{AB} \parallel \overline{ED}$
 $\overline{EF} \parallel \overline{CB}$
 $\overline{AB} \cong \overline{DE}$

Prove: $\triangle ABC \cong \triangle DEF$



4. Given: $\overline{AB} \parallel \overline{ED}$
 C is the midpoint of \overline{AD} & \overline{BE}

Prove: $\triangle ABC \cong \triangle DEC$

