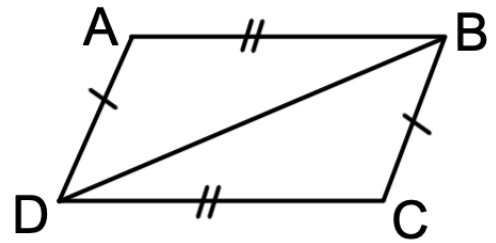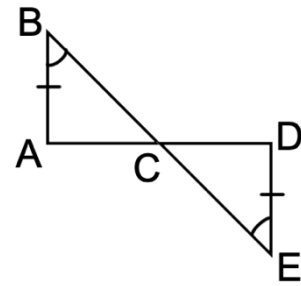Advanced Geometry
WS PC #2 Review – Unit 5
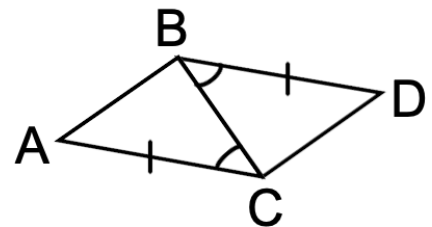
Write a proof for each.

1. Given: $\overline{AD} \cong \overline{CB}$, $\overline{AB} \cong \overline{CD}$
   Prove: $\triangle ABD \cong \triangle CDB$

2. Given: $\overline{AB} \cong \overline{DE}$, $\angle ABC \cong \angle DEC$
   Prove: $\triangle ABD \cong \triangle CDB$
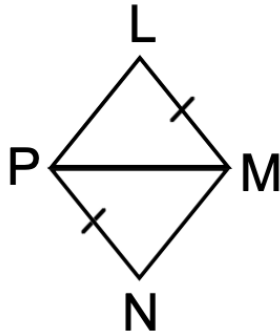

3. Given: $\overline{AC} \cong \overline{DB}$, $\angle ACB \cong \angle DBC$
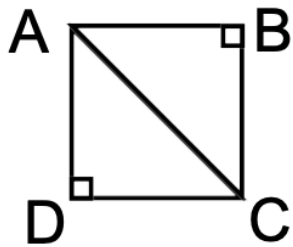   Prove: $\angle A \cong \angle D$

What additional information is needed that cannot be concluded from the picture to prove the triangles are congruent by the given angle congruence theorem?

4. SSS

5. HL

6. AAS