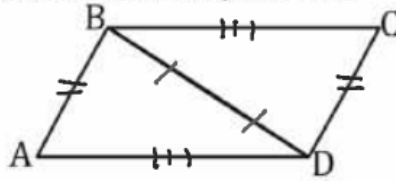


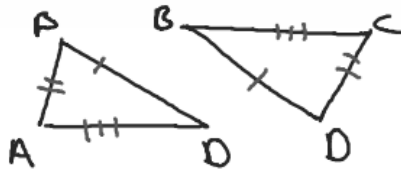
~~ASS~~

SSS ✓  
 SAS ✓  
 ASA  
 AAS  
 HL

Given:  $\overline{AB} \cong \overline{CD}$ ,  $\overline{AD} \cong \overline{CB}$

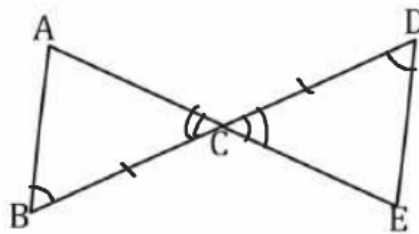


Prove:  $\triangle ABD \cong \triangle BCD$



Statement	Reason
1) $\overline{AB} \cong \overline{CD}$ $\overline{AD} \cong \overline{CB}$	1) Given
2) $\overline{BD} \cong \overline{BD}$	2) Reflexive prop
3) $\triangle ABD \cong \triangle BCD$	3) SSS

Given:  $\overline{AE}$  Bisects  $\overline{BD}$ ,  $\angle B \cong \angle D$

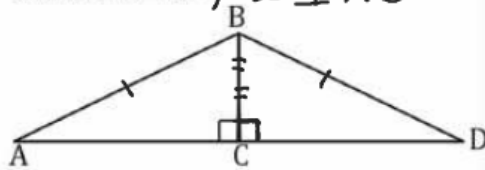


AAS  
 SAS

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

Statement	Reason
1) $\overline{AE}$ Bisects $\overline{BD}$ $\angle B \cong \angle D$	1) Given
2) $\overline{BC} \cong \overline{DC}$	2) Def of Bisector
3) $\angle ACB \cong \angle ECD$	3) Vertical $\angle$ 's $\cong$
4) $\triangle ABC \cong \triangle DEC$	4) ASA

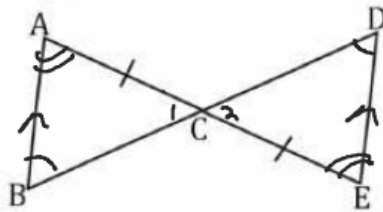
Given:  $\overline{AB} \cong \overline{BD}$ ,  $\overline{BC} \perp \overline{AD}$



Prove:  $\triangle ABC \cong \triangle BCD$

Statement	Reason
1) $\overline{AB} \cong \overline{BD}$ $\overline{BC} \perp \overline{AD}$	1) Given
2) $\overline{BC} \cong \overline{BC}$	2) Reflexive prop
3) $\triangle ABC \cong \triangle BCD$	3) HL

Given  $\overline{AB} \parallel \overline{ED}$ ,  $\overline{AC} \cong \overline{EC}$



Prove:  $\triangle ABC \cong \triangle EDC$

Statement	Reason
1) $\overline{AB} \parallel \overline{ED}$ $\overline{AC} \cong \overline{EC}$	1) Given

