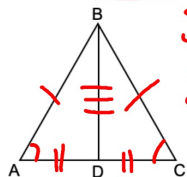


From the given information, what theorem (SSS, SAS, ASA or AAS) would prove the triangles congruent.

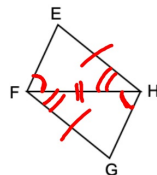
SSA AAA

1. $\angle A \cong \angle C$, $AD \cong DC$



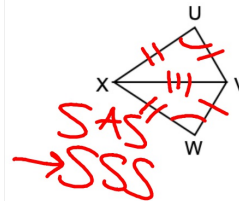
SAS
SSS

2. $HE \cong FG$, $\angle EFH \cong \angle FHG$, $\angle EHF \cong \angle GFH$



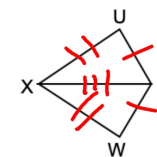
AAS
ASA

3. $\angle U \cong \angle W$, $UV \cong WV$, $UX \cong WX$



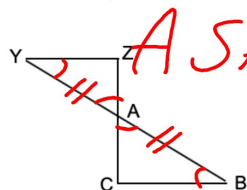
SAS
→ SSS

4. $UV \cong WV$, $UX \cong WX$



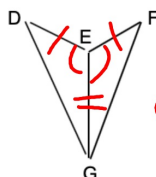
SSS

5. $\angle Y \cong \angle B$, $YA \cong BA$



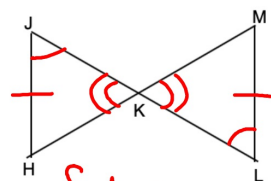
ASA

6. $\angle DEG \cong \angle FEG$, $DE \cong EF$



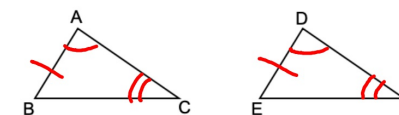
SAS

7. $\angle HJK \cong \angle MLK$, $JH \cong ML$



SAA
AAS

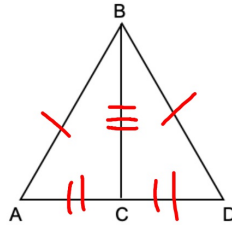
8. $\angle A \cong \angle D$, $AB \cong DE$, $\angle F \cong \angle C$



AAS

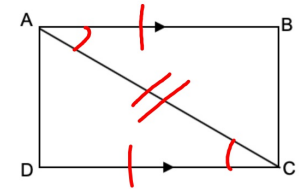
Write a two-column proof.

9. **Given:** $AB \cong DB$
 C is the midpoint of AD .
Prove: $\triangle ABC \cong \triangle DBC$



Statements	Reasons
①. $AB \cong DB$	①. Given
②. C is the m.p. of AD	Given
③. $AC \cong CD$	Def of m.p.
④. $BC \cong BC$	Ref.
⑤. $\triangle ABC \cong \triangle DBC$	SSS

10. **Given:** $AB \parallel CD$ $AB \cong CD$
 ~~$\angle CAB \cong \angle ACD$~~
Prove: $\triangle ACD \cong \triangle ABC$



Statements	Reasons
①. $AB \parallel CD$	Given
②. $AB \cong CD$	Given
③. $\angle BAC \cong \angle DCA$	Alt Int
④. $AC \cong AC$	Ref.
⑤. $\triangle ACD \cong \triangle ABC$	SAS