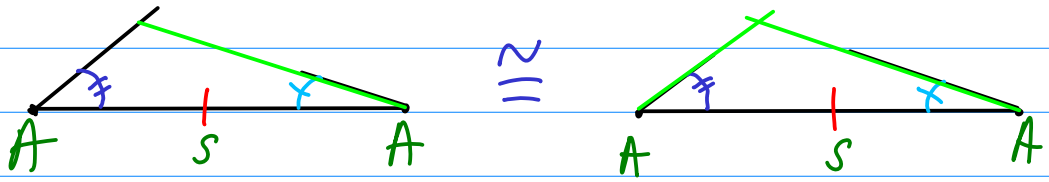
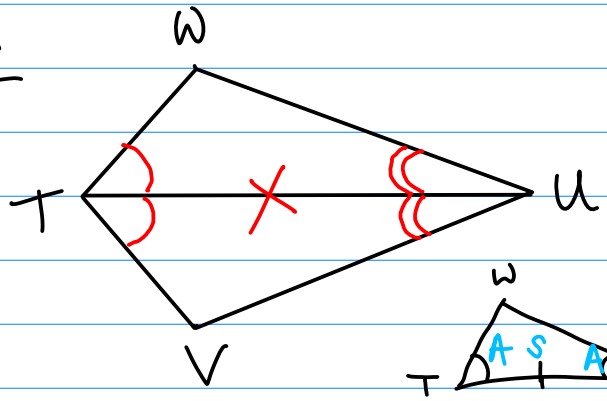
§4.5: $\cong \triangle$s, #2

* ASA ("∠-side-∠"):

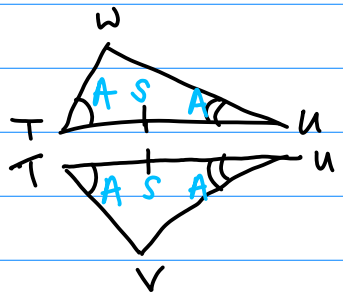



Ex:

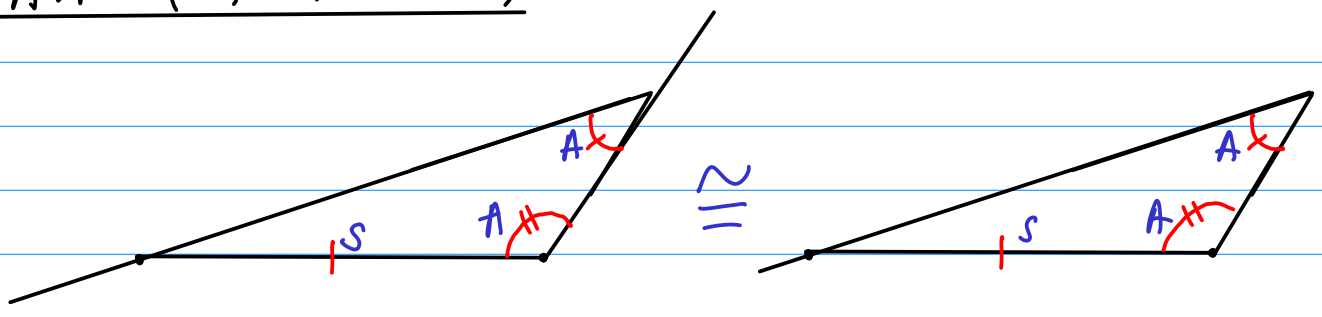



Given: $\overline{TU}$ bisects $\angle VTW$ & $\angle VUW$

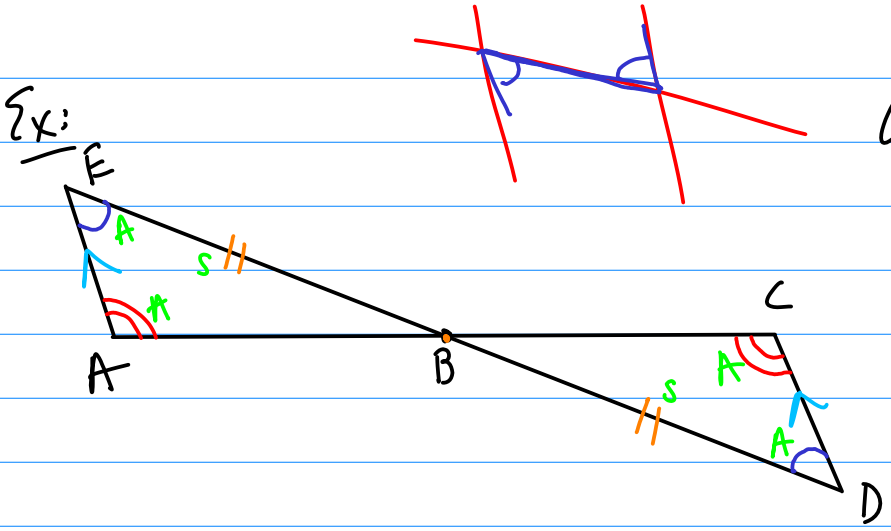
$\triangle TWU \cong \triangle TVU$ by ASA.




* AAS ("∠-∠-side"):



Ex:

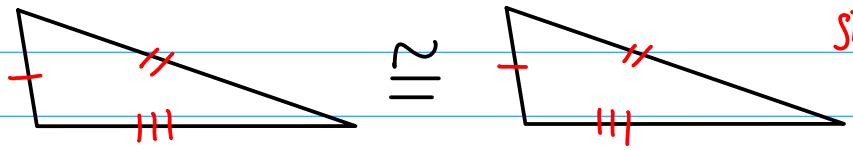



Given: $\overline{AE} \parallel \overline{CD}$ ✓;
✓ B is midpt of $\overline{DE}$

$\triangle BCD \cong \triangle BAE$
by AAS.

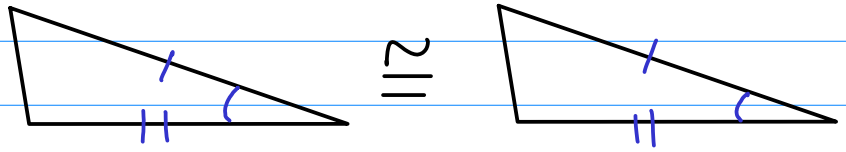
Summary of △ congruency shortcuts:

- SSS (name of tool)

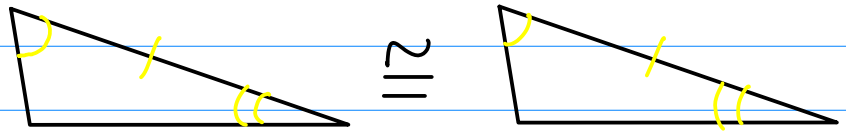


Side-side-side (written statement)

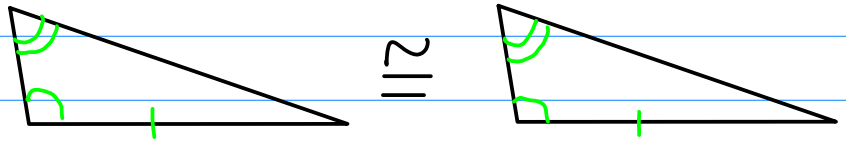
- SAS



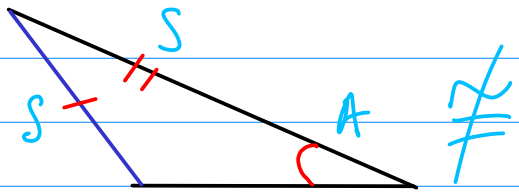
- ASA



- AAS



SSS SAS ? SSA AAS ASA ? AAA

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