

Triangle Congruence

- 5 ways to prove Δ 's \cong

1) Side-Side-Side (SSS) \rightarrow All 3 sides \cong

2) Side-Angle-Side (SAS) \rightarrow 2 sides \cong + angle b/w is \cong

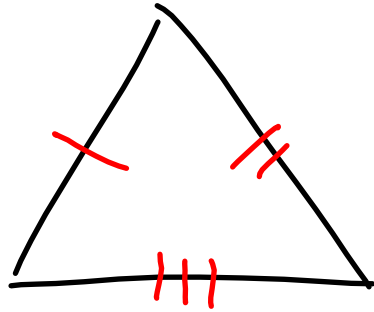
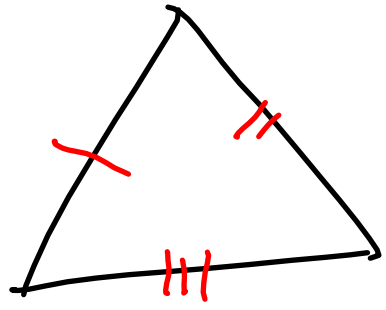
3) Angle-Side-Angle (ASA) \rightarrow 2 angles \cong + side b/w is \cong

4) Angle-Angle-Side (AAS) \rightarrow 2 angles \cong + side next to one angle \cong

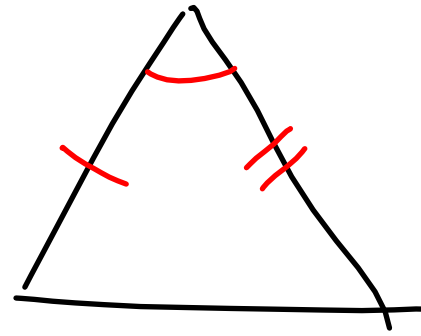
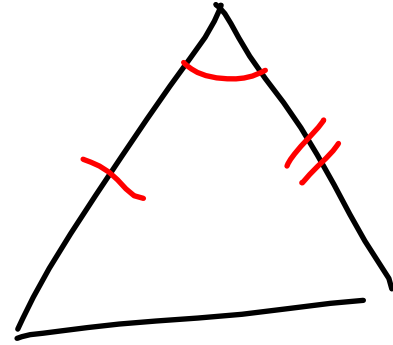
5) Hypotenuse-Leg (HL) \rightarrow RIGHT TRIANGLES ONLY!

\hookrightarrow need \cong hypotenuse + \cong leg

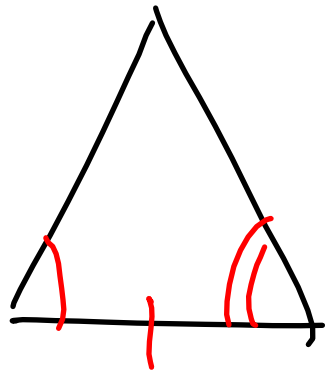
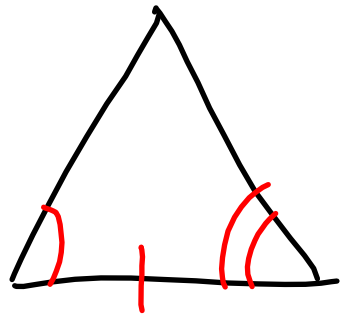
SSS



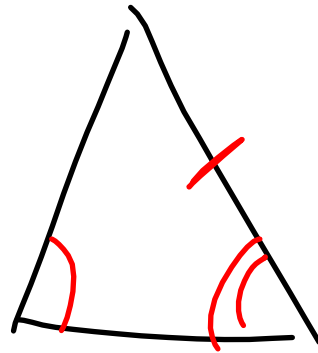
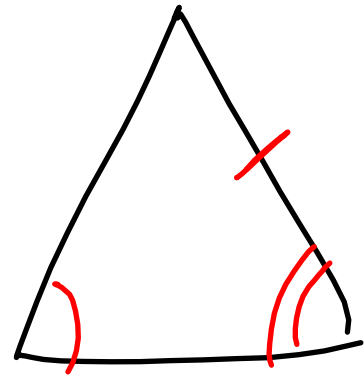
SAS



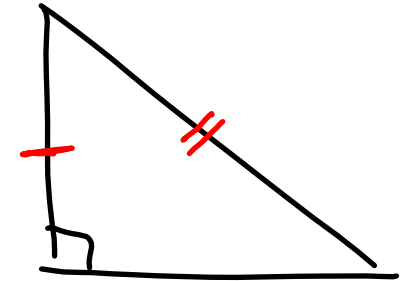
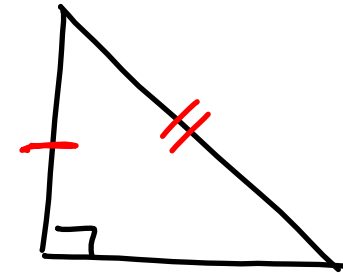
ASA



AAS



HL



HW : p. 231 → 11-14, 24-26
p. 238 → 8, 9, 16-18