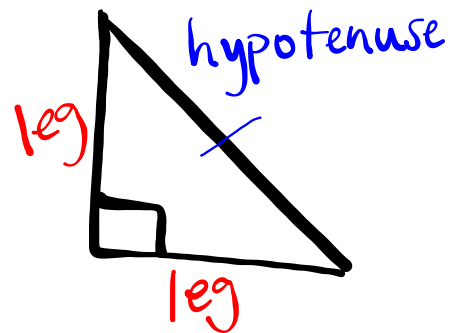


Triangle Congruence Theorems

SSS (side-side-side)
SAS (side-angle-side)
ASA (angle-side-angle)
AAS (angle-angle-side)
HL (hypotenuse-leg)

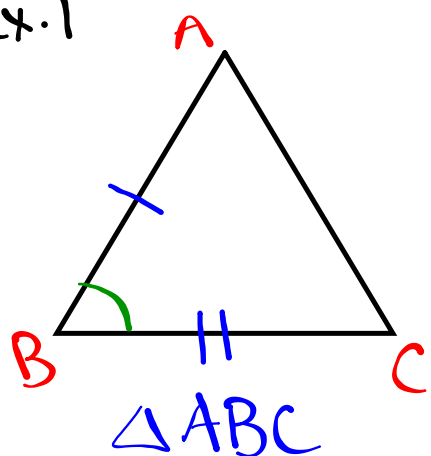


~~NOT~~
Theorems

ASS (angle-side-side)
AAA (angle-angle-angle)

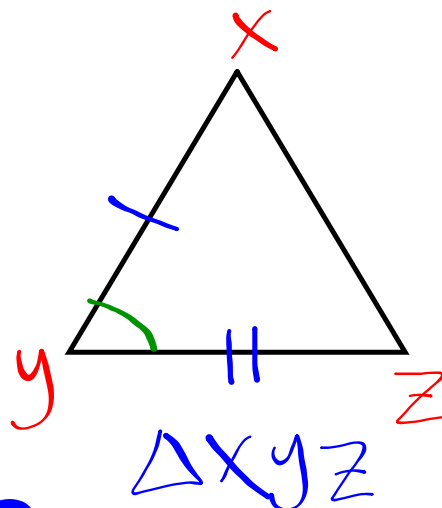
★ Don't
 skip a side
 and an angle

ex. 1



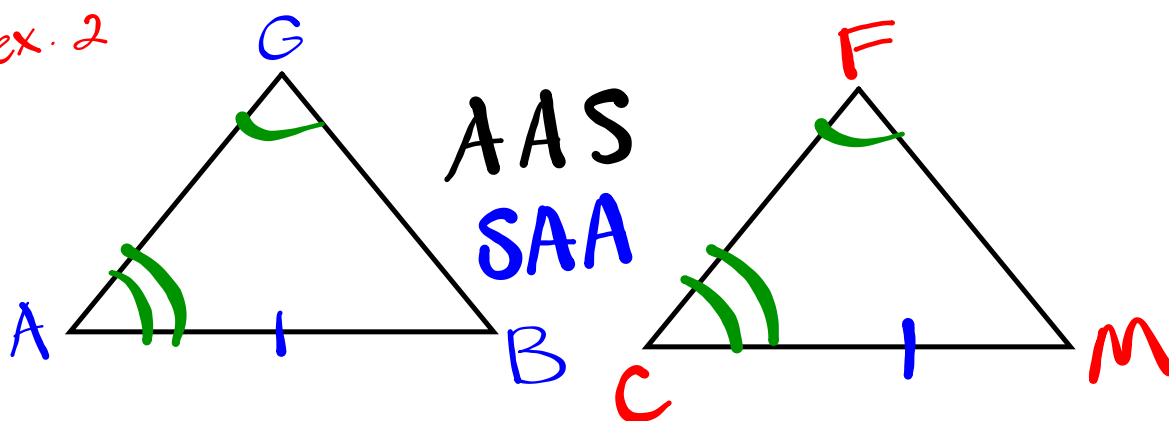
$\triangle ABC$

\cong
SAS



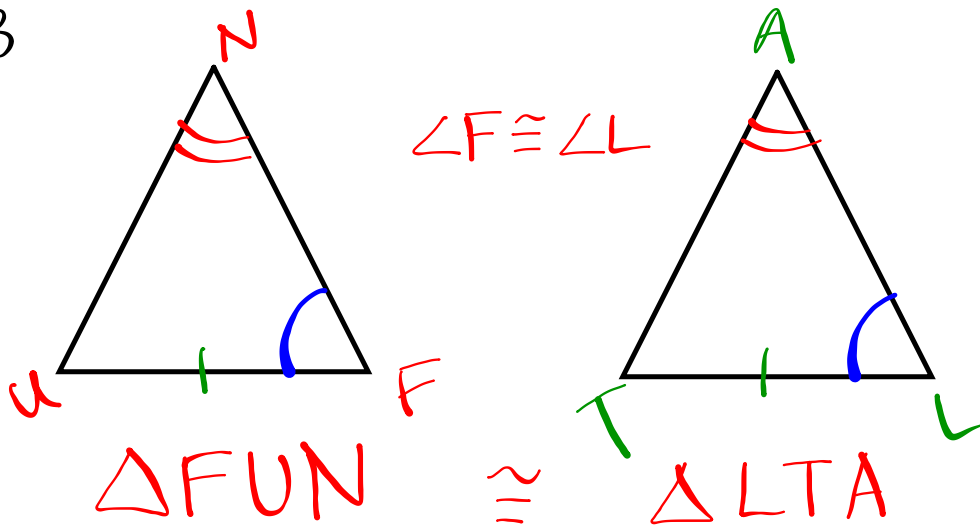
$\triangle XYZ$

ex. 2



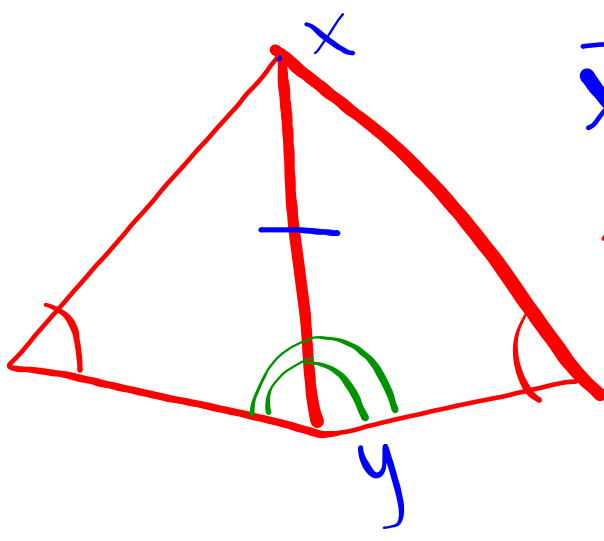
$$\triangle GBA \cong \triangle FMC$$

ex. 3



ASA $\angle U \cong \angle T, \overline{UF} \cong \overline{TL}$
SAS $\overline{UF} \cong \overline{TL}, \overline{FN} \cong \overline{LA}$
AAS $\overline{UF} \cong \overline{TL}, \angle N \cong \angle A$

1.

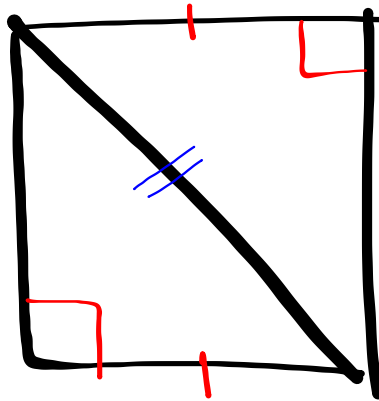


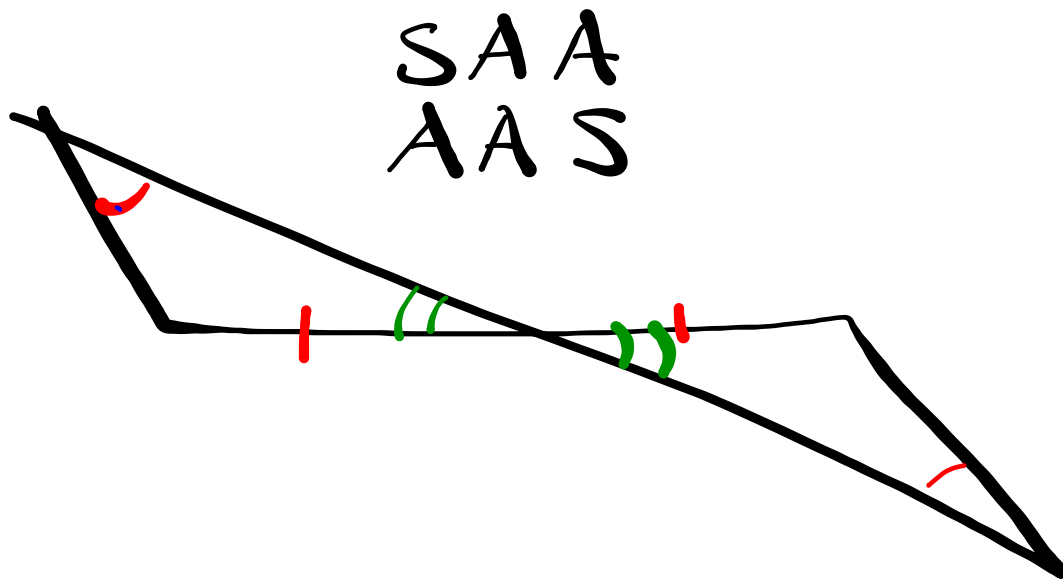
$$\overline{xy} \cong \overline{xy}$$

AAS

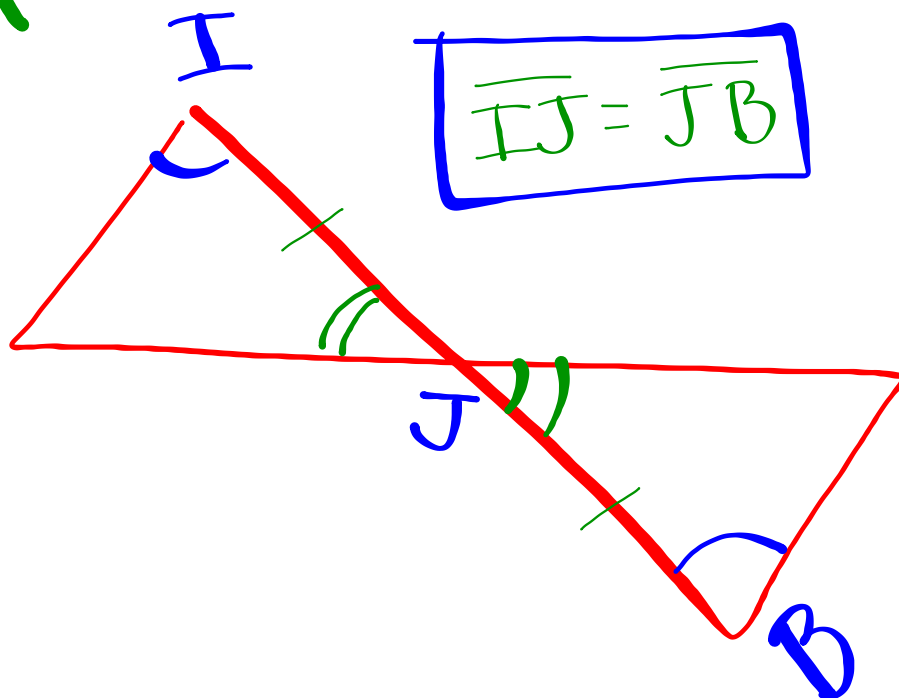
2.

HL





11. ASA



1. AAS

2. HL

3. SAS

4. SAS

5. SAS

6. AAS

7. AAS

8. Not \cong 9. Not \cong

10. SAS

11. $\overline{IJ} \cong \overline{BJ}$ 12. $\overline{CD} \cong \overline{HB}$ 13. $\angle E \cong \angle R$ 14. $\angle D \cong \angle U$ 15. $\overline{CD} \cong \overline{XG}$ 16. $\overline{SU} \cong \overline{KM}$ 17. $\angle V \cong \angle J$ 18. $\overline{YX} \cong \overline{LW}$ 19. $\angle T \cong \angle F$ 20. $\angle I \cong \angle A$