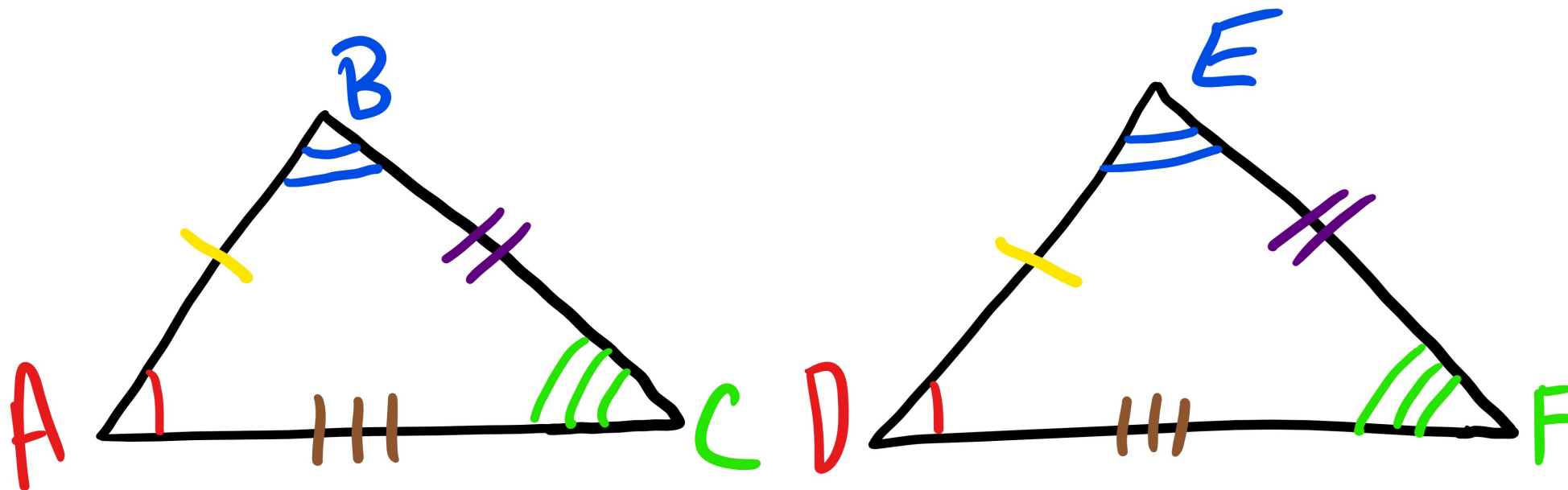


Correspond Parts

$$\triangle ABC \cong \triangle DEF$$



$$\angle A \cong \angle D$$

$$\angle B \cong \angle E$$

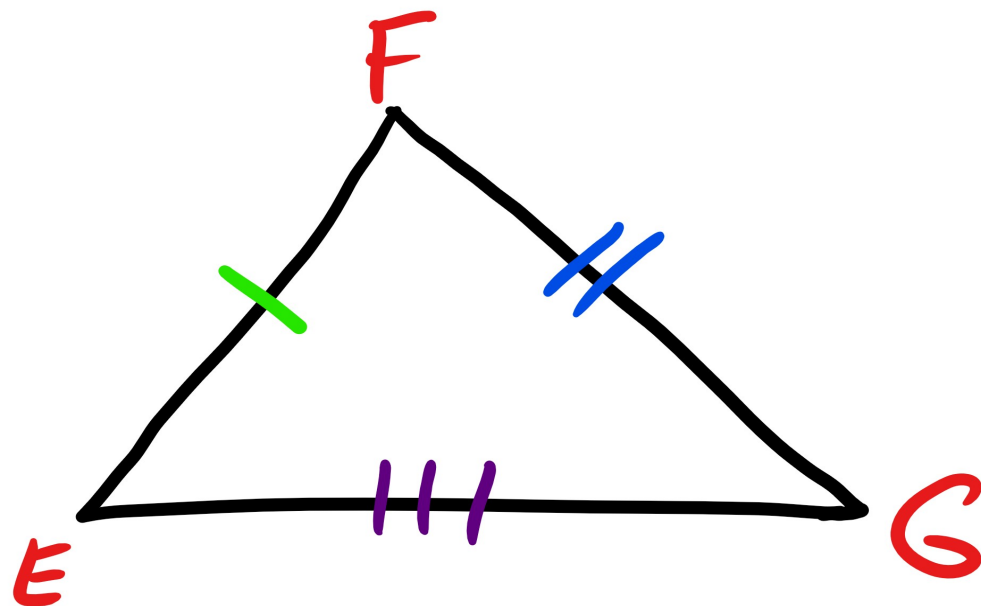
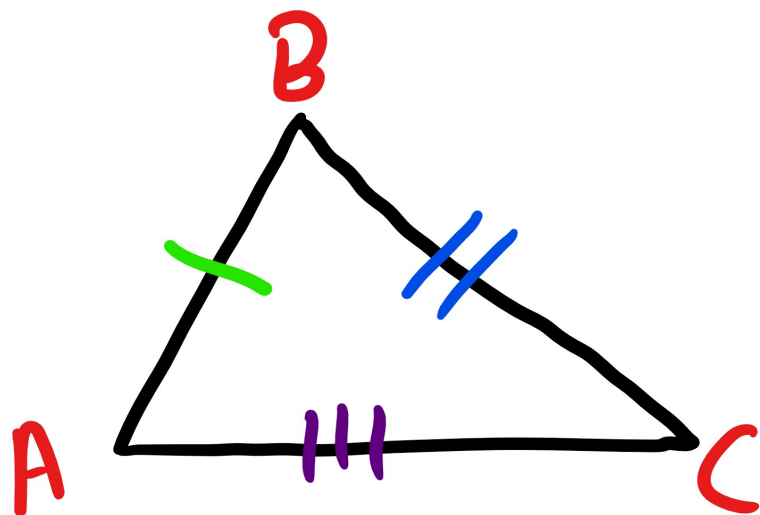
$$\angle C \cong \angle F$$

$$\overline{AB} \cong \overline{DE}$$

$$\overline{BC} \cong \overline{EF}$$

$$\overline{AC} \cong \overline{DF}$$

SSS



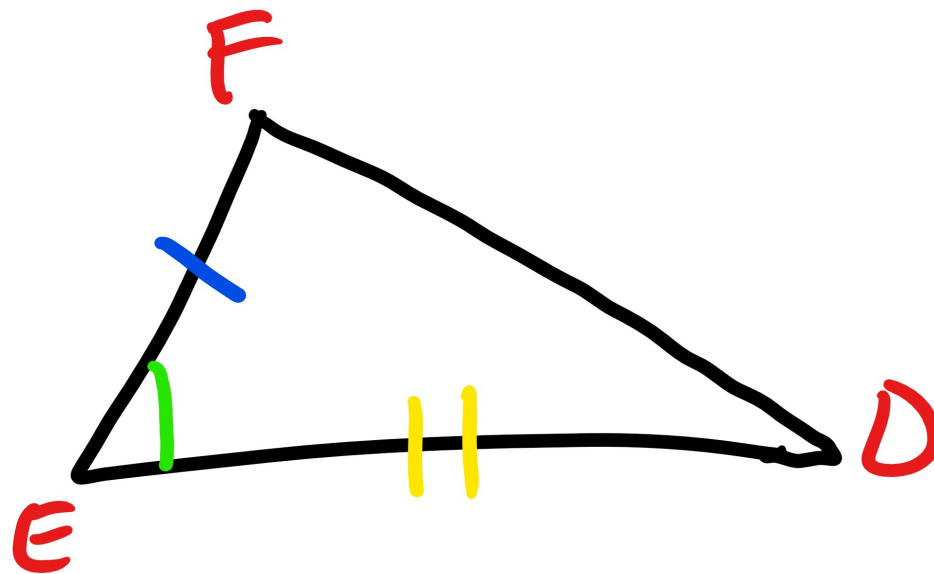
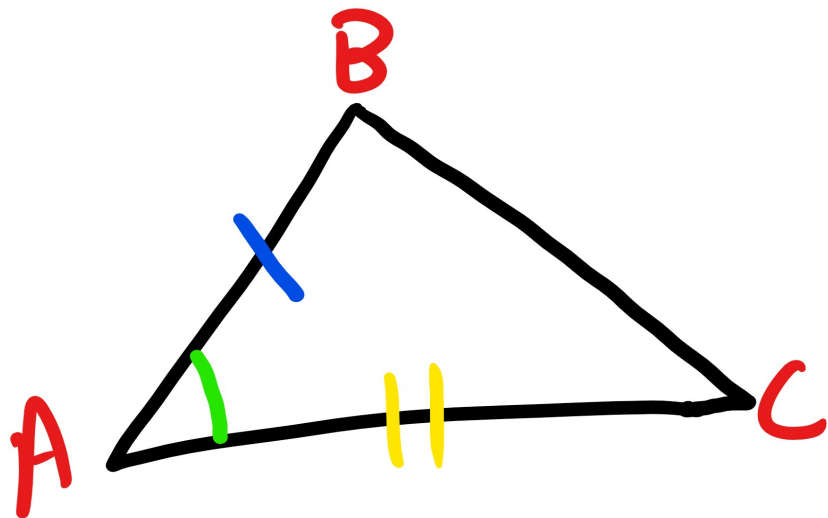
$$\overline{AB} \cong \overline{EF}$$

$$\overline{BC} \cong \overline{FG}$$

$$\overline{AC} \cong \overline{EG}$$

$\triangle ABC \cong \triangle EFG$
by SSS

SAS



$$\overline{AB} \cong \overline{FE}$$

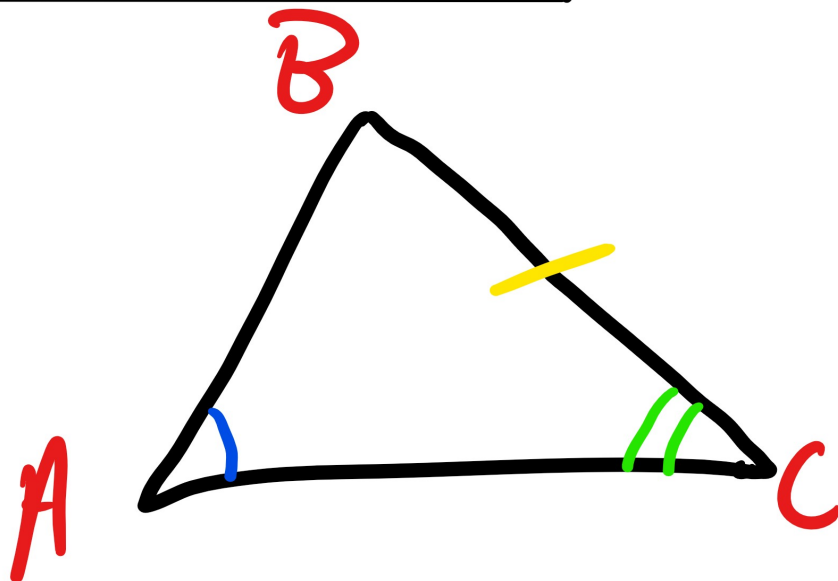
$$\angle A \cong \angle E$$

$$\overline{AC} \cong \overline{ED}$$

$$\triangle ABC \cong \triangle FED$$

by SAS

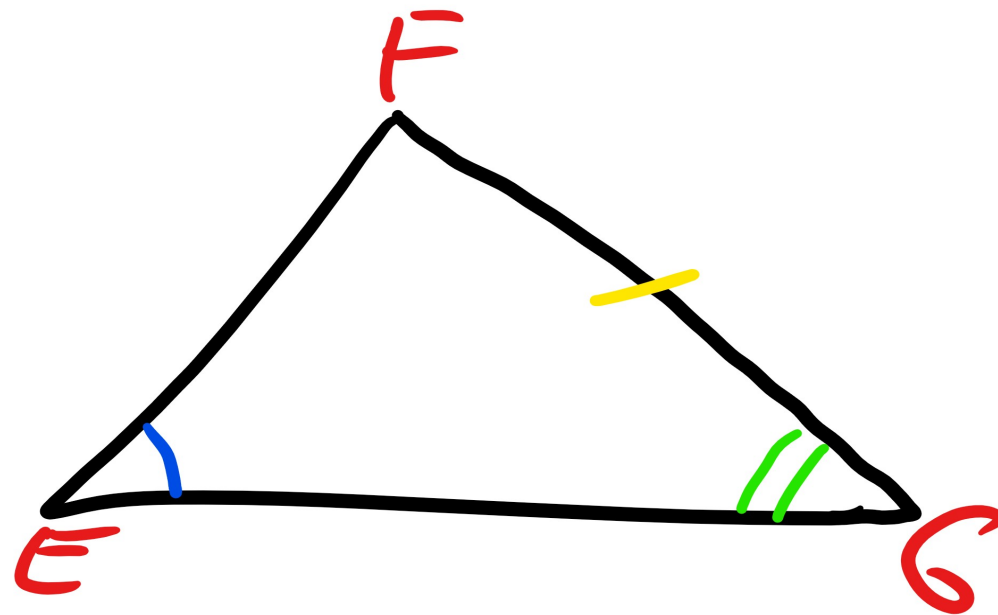
AAS



$$\angle A \cong \angle E$$

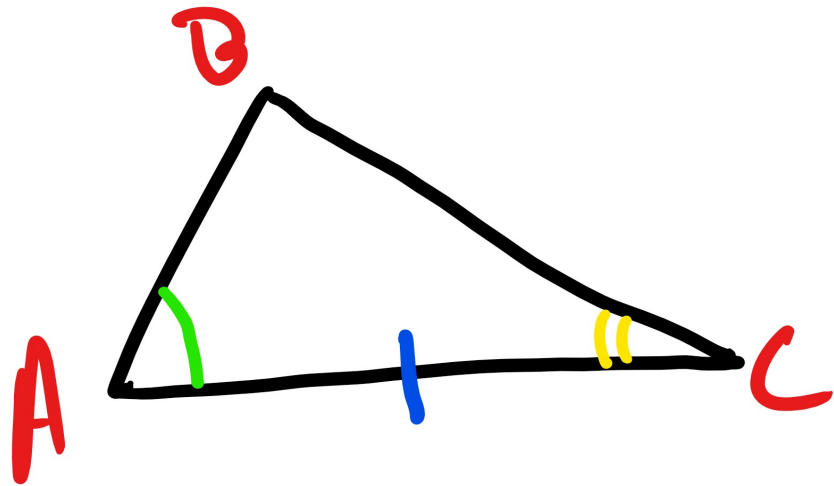
$$\angle C \cong \angle G$$

$$\overline{BC} \cong \overline{FG}$$



$\triangle ABC \cong \triangle EFG$
by AAS

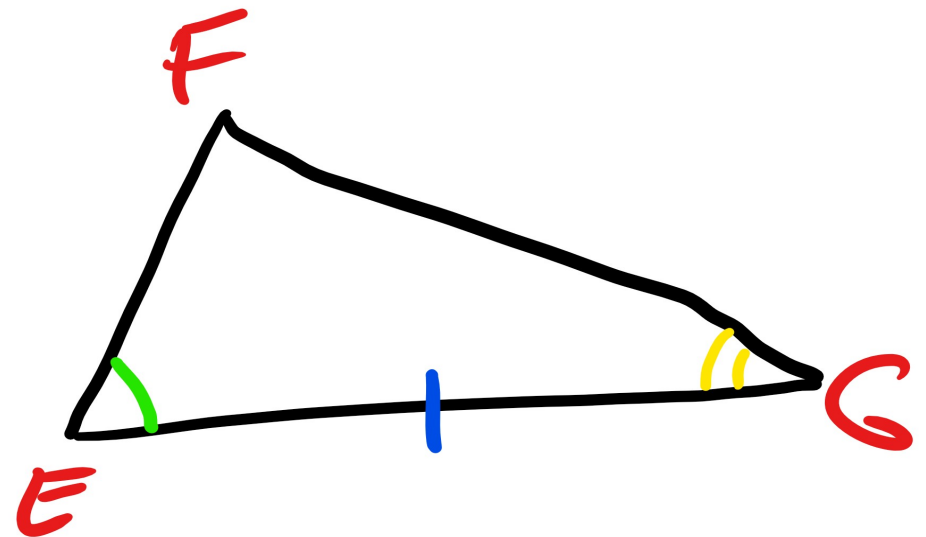
ASA



$$\angle A \cong \angle E$$

$$\overline{AC} \cong \overline{EG}$$

$$\angle C \cong \angle G$$



$$\triangle ABC \cong \triangle EFG$$

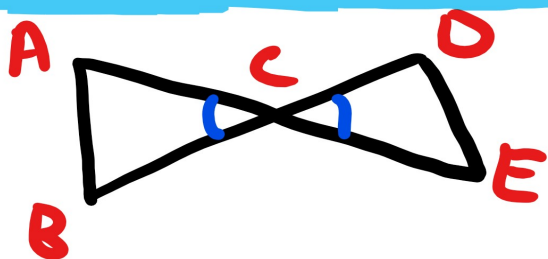
by ASA

Review

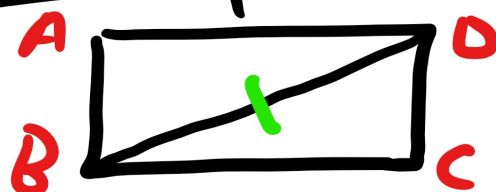
Reflexive Property

⊥ Lines

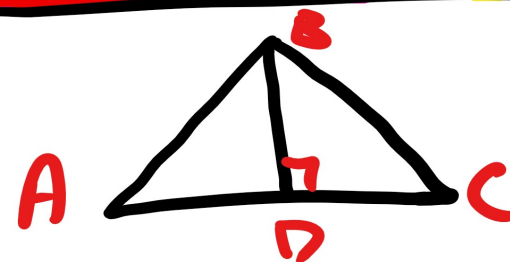
Vertical ∠'s



$$\angle ACB \cong \angle ECD$$

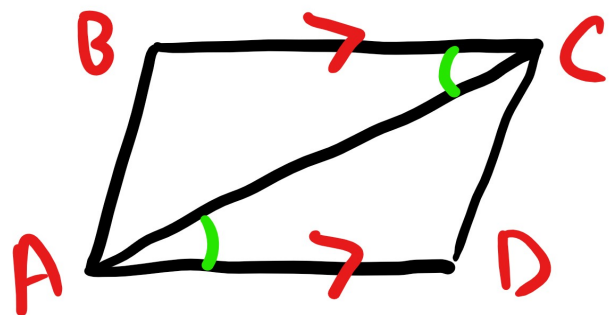


$$\overline{DB} \cong \overline{BD}$$



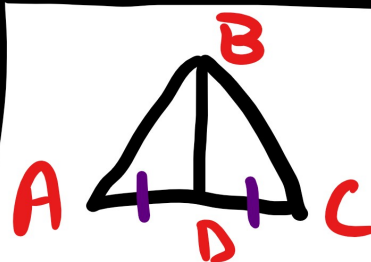
$\angle ADB$ & $\angle CDB$ are right $\angle$'s $\rightarrow \angle ADB \cong \angle CDB$

// Lines



$\angle BCA \cong \angle DAC$
by Alternate Interior Angles

Midpoint

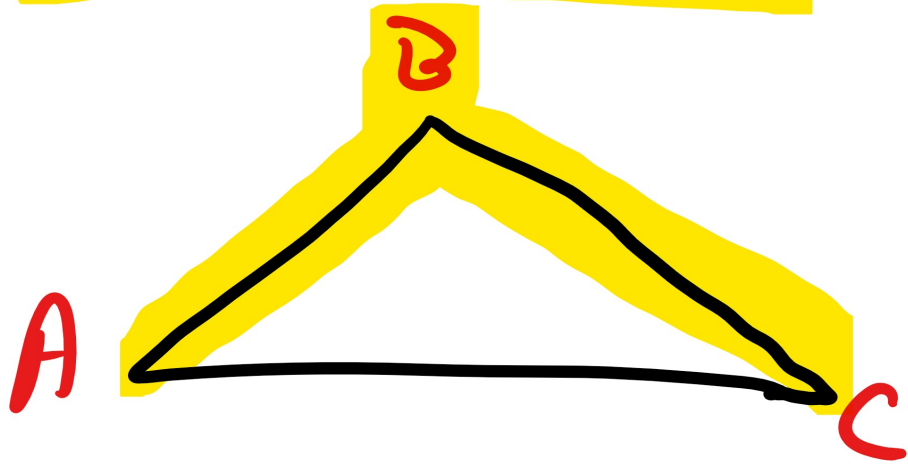


D is the midpoint of $\overline{AC}$

$$\overline{AD} \cong \overline{CD}$$

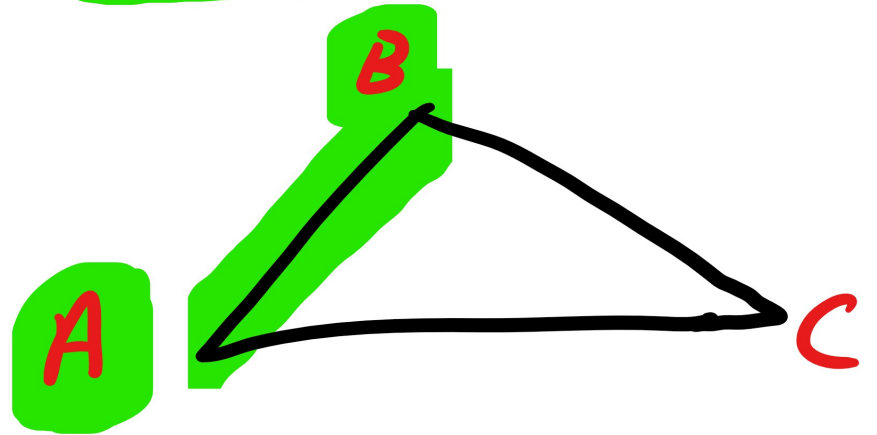
Included $\angle$'s & Sides

Included $\angle$'s



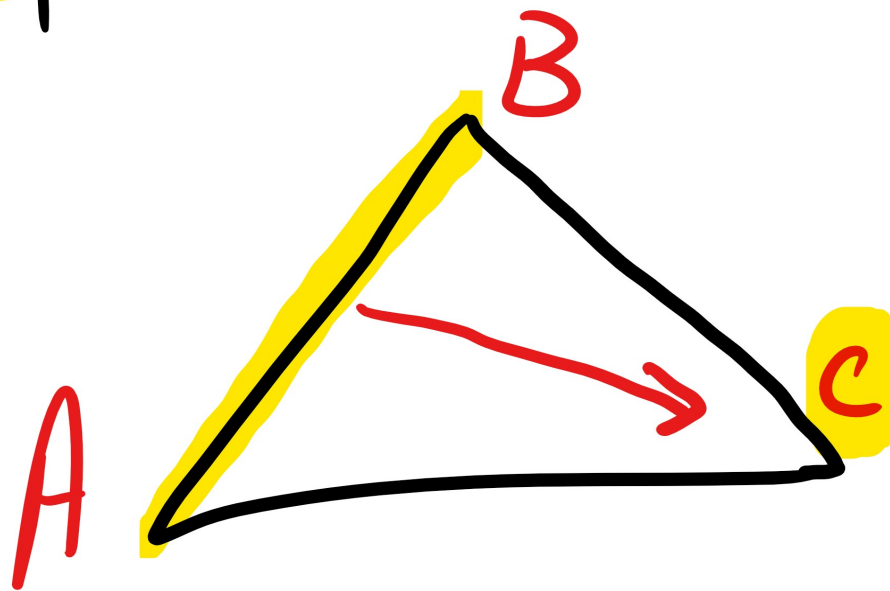
$\angle B$ is included
with $\overline{AB}$ & $\overline{CB}$

Included Sides

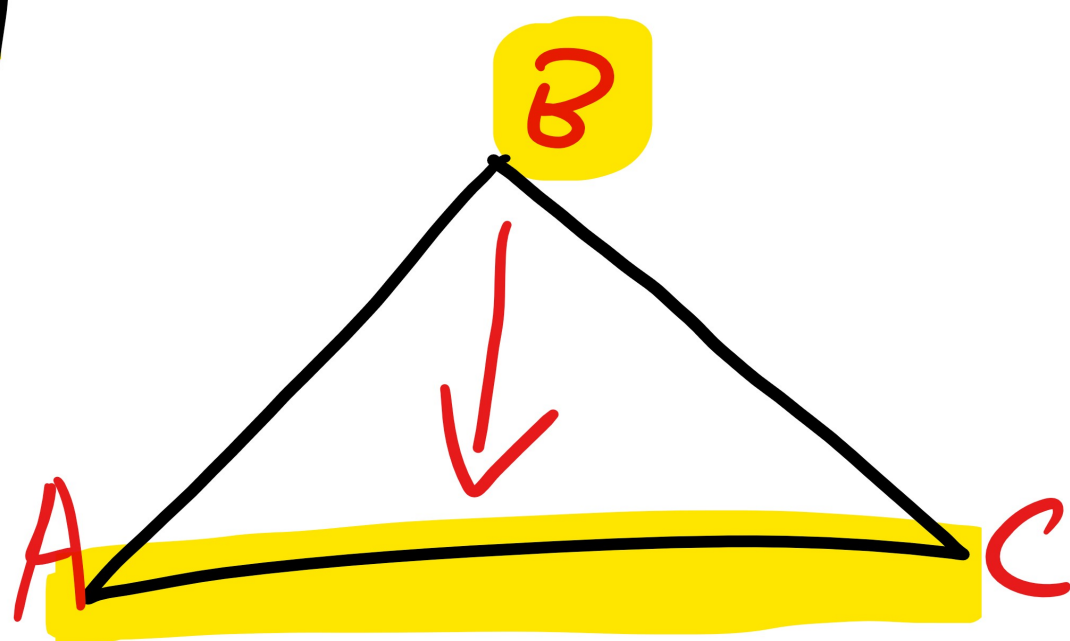


$\overline{AB}$ is included
between $\angle A$ & $\angle B$

Opposite Sides & $\angle$'s



$\angle C$ is opposite
 $\overline{AB}$



$\overline{AC}$ is opposite
 $\angle B$