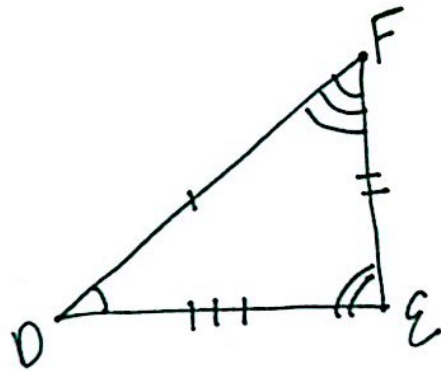
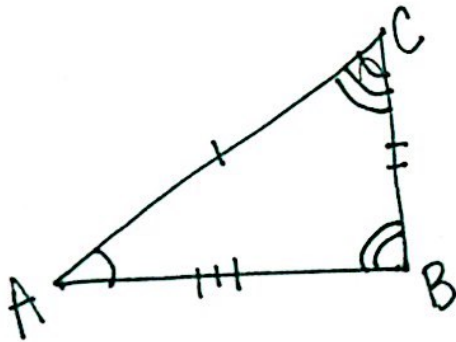


Congruent Figures



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

← *order of letters matters

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

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

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

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

$$\overline{CB} \cong \overline{FE}$$

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

EX $\triangle WYS \cong \triangle MKV$

If $m\angle Y = 35^\circ$, what is the $m\angle K$?
 $m\angle K = 35^\circ$

If $m\angle W = 105^\circ$, what is the $m\angle V$?

$$105 + 35 = 140$$

$$180 - 140 = 40^\circ$$

EX $\triangle XYZ \cong \triangle KLM$

$$m\angle Y = 67^\circ$$

$$m\angle M = 48^\circ$$

Find $m\angle X$.

$$m\angle X = 65^\circ$$

~~QW*~~ $\triangle XYZ \rightarrow 48^\circ$
 \downarrow
 67°

$$180 - 67 - 48 = 65$$