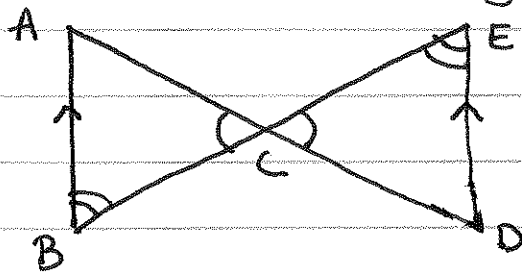


1.3 Proving Triangles Similar

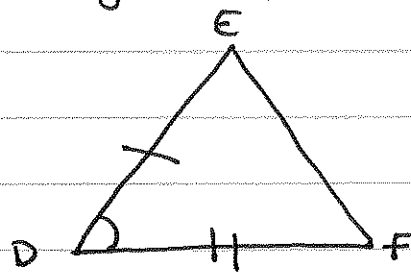
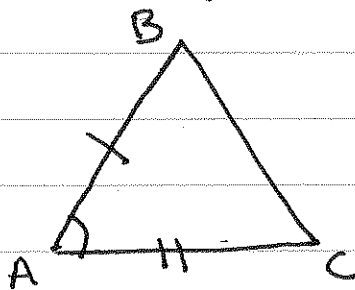
① Angle Angle Similarity (AA \sim)



$$\triangle ABC \sim \triangle DEC$$

If 2 angles of one \triangle are \cong to 2 angles of another \triangle , then the \triangle s are similar

② Side angle side similarity (SAS \sim)



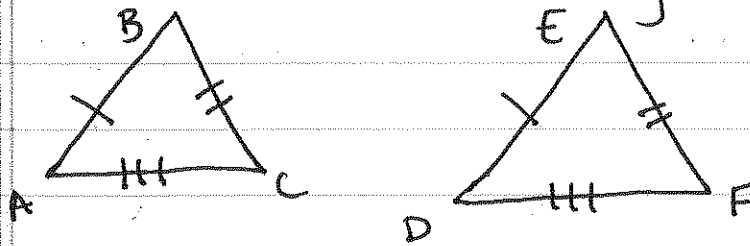
$$\frac{AB}{DE} = \frac{AC}{DF}$$

Similarity ratio

$$\triangle BAC \sim \triangle EDF$$

If ~~an~~ an angle of 1 \triangle is \cong to an angle of the 2nd \triangle , and the sides including the ~~angle~~ angle are proportional, then the \triangle s are similar

③ Side Side Side Similarity (SSS~)



$$\frac{AB}{DE} = \frac{BC}{EF} = \frac{AC}{DF} \therefore \triangle ABC \sim \triangle DEF$$

If the corresponding sides of two Δ s are proportional, then the Δ s are \sim