Chapter - 7 Congruence of Triangle

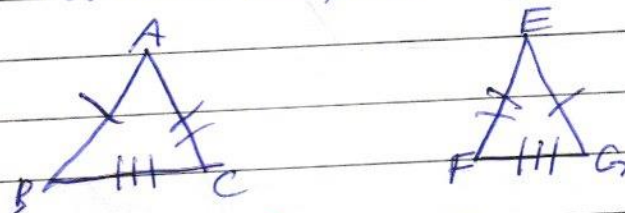**(I) Introduction to $\cong \triangle^{gs}$:**

Congruent Figures: Are exactly equal in size and shape.

Congruent Triangle: If all the sides and angles of a $\triangle$ are equal to the $\longleftrightarrow$ sides and angles of another $\triangle$, then both the $\triangle$ are ~~set to~~ said to be $\cong$.

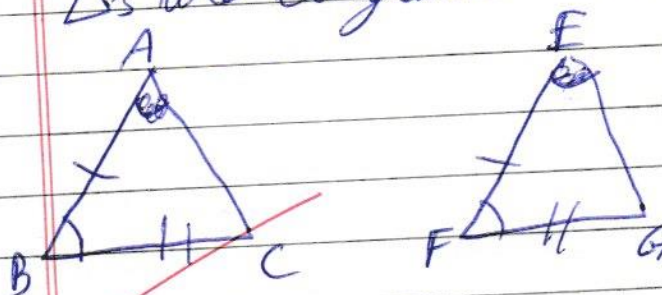
$$\triangle ABC \cong \triangle EFD$$
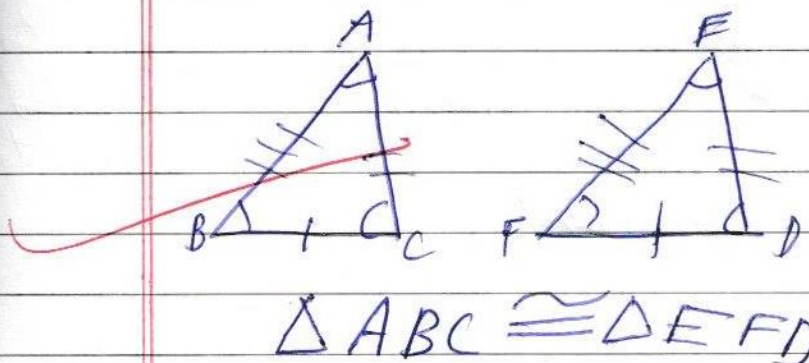
S.S.S. critiria for congruency :-
The three sides of a △ are equal to the three ~~sides~~ corresponding sides of another ~~△ other~~ △, then the △'s are ≅.

$$\therefore \triangle ABC \cong \triangle GEF$$

S.A.S. critiria for congruency :-
If two sides and the angle included between ~~these~~ them of a △ is equal to two ↔ sides and the ∠ included between them of another △, then the △'s are congruent.
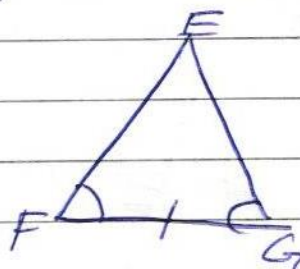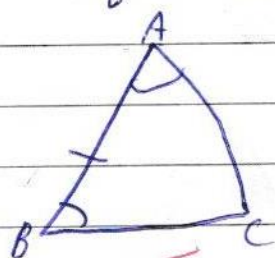

$$\therefore \triangle ABC \cong \triangle EFG$$

A.S.A criteria for congruency:-

If two ∠ and the included side of a △ are equal to two ↔ ∠'s and the included side of another △, then the △'s are ≅

∴, △ABC ≅ △EFG