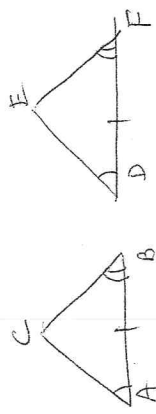


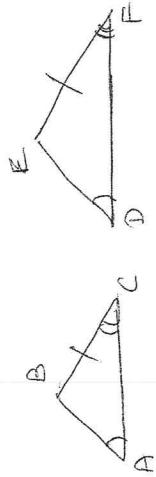
Recall's: TRIANGLE CONGRUENCE BY ASA and AAS:

4.5) A.S.A.: IF TWO ANGLES AND THE INCLUDED SIDE OF ONE TRIANGLE ARE CONGRUENT TO TWO ANGLES AND THE THIRD INCLUDED SIDE OF A SECOND TRIANGLE, THEN THE TWO TRIANGLES ARE CONGRUENT.



IF ANGLE $\angle A \cong \angle D$
SIDE $AC \cong DF$, and
ANGLE $\angle B \cong \angle E$,
Then $\triangle ABC \cong \triangle DEF$.

1) A.A.S.: IF TWO ANGLES AND A NON-INCLUDED SIDE OF ONE TRIANGLE ARE CONGRUENT TO TWO ANGLES AND THE CORRESPONDING NON-INCLUDED SIDE OF A SECOND TRIANGLE, THEN THE TWO TRIANGLES ARE CONGRUENT.

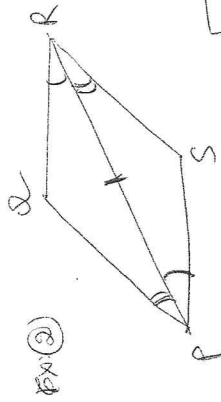


ANGLE $\angle A \cong \angle D$
ANGLE $\angle B \cong \angle E$ and
SIDE $BC \cong EF$,
then $\triangle ABC \cong \triangle DEF$.

NOTE: ORDER OF THE LETTERS ARE IMPORTANT



EX:- ① $\angle A \cong \angle D$
 $\angle C \cong \angle F$
SIDE $BC \cong EF$
BY **AAS**



EX ②
 $\triangle PQR, \triangle STU$ BY **ASA**
THE TRIANGLES ARE CONGRUENT

IMPORTANT POSTULATES:

- ① SSS →
- ② SAS →
- ③ HL →
- ④ ASA →
- ⑤ AAS →

⑥ THERE IS NO **AAA**

⑦ **ANGLE-LEG, HYPOTENUSE - ANGLE** THEOREMS ARE ALSO THERE.