

**Triangles congruence**

Two triangles are said to be congruent if they have same shape and same size. When triangles are congruent corresponding sides (sides in same position) and corresponding angles (angles in same position) are congruent (equal).



There are three postulates that are used to identify congruent triangles.

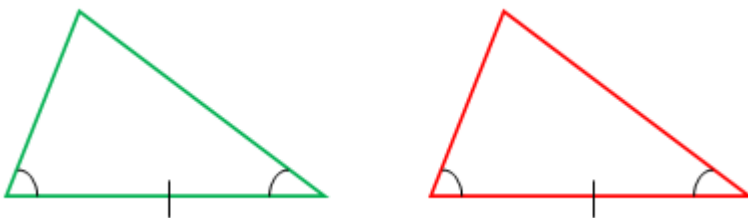
**Side-Side-Side Postulate (SSS postulate)**

If all three sides of a triangle are congruent to corresponding three sides of other triangle then the two triangles are congruent.



**Angle-Side-Angle Postulate (ASA postulate)**

According to this postulate the two triangles are said to be congruent if two angles and the side between these two angles of one triangle are congruent to corresponding angles and the included side (side between two angles) of the other triangle.



**Side-Angle-Side Postulate (SAS postulate)**

If two sides and the included angle (angle between these two sides) of one triangle are congruent to the corresponding two sides and the included angle of a second triangle, then the two triangles are congruent.

