Important Notes on Triangles

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- **SAS congruence rule:** Two triangles are congruent if two sides and the included angle of one triangle are equal to the sides and the included angle of the other triangle.
- **SAS congruence rule** holds but not ASS or SSA rule.
- **ASA congruence rule:** Two triangles are congruent if two angles and the included side of one triangle are equal to two angles and the included side of other triangle.
- **AAS congruence rule:** Two triangles are congruent if any two pairs of angles and one pair of corresponding sides are equal.
- Angles opposite to equal sides of an **isosceles triangle** are equal.
- The sides opposite to equal angles of a triangle are equal.
- **SSS congruence rule :** If three sides of one triangle are equal to the three sides of another triangle, then the two triangles are congruent.
- **RHS congruence rule :** If in two right triangles the hypotenuse and one side of one triangle are equal to the hypotenuse and one side of the other triangle, then the two triangles are congruent. **Note that RHS stands for Right angle - Hypotenuse – Side.**
- If two sides of a triangle are unequal, the angle opposite to the longer side is larger (or greater).
- In any triangle, the side opposite to the larger (greater) angle is longer.
- The sum of any two sides of a triangle is greater than the third side.

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