

CHAPTER 08

Introduction to Trigonometry

Introduction:

The word 'trigonometry' is derived from three Greek words 'Tri' means three, 'gon' means sides, and 'metron' means measure. The literal meaning of trigonometry is measurement of triangle. In fact, it is the study of relations between the angles and sides of triangle. Trigonometry also play an important role in the study of physics, Engineering, Surveying, Navigation etc.

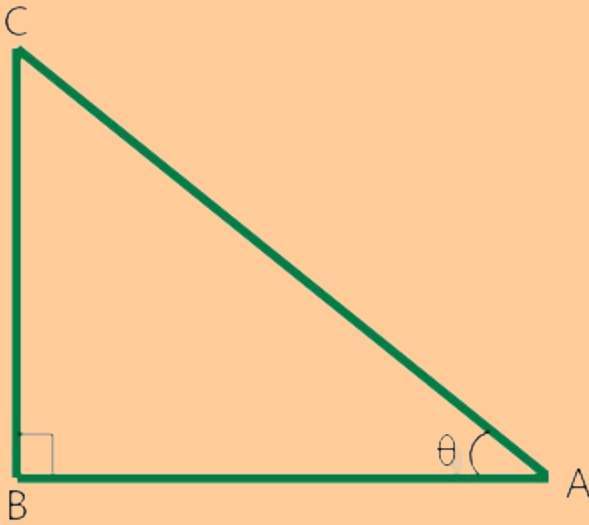
Naming the sides in a right angle triangle:

In triangle ABC, we can consider $\angle CAB$ as 'A' where 'A' is an acute angle. Since, AC is the longest side, it is called 'Hypotenuse'.

AC = Hypotenuse

BC = Opposite side of angle 'A'

AB = Adjacent side of angle 'A'



Here, you observe the position of side BC with respect to angle 'A'. It is opposite to angle 'A' and we can call it as 'Opposite side of angle A'. The remaining side AB can be called as 'Adjacent side of angle A'.

Here, we have to understand the relationship between the sides and angles we will study this under the section called 'Trigonometric ratios'.