

INTRODUCTION TO TRIGONOMETRY

RIGHT ANGLE TRIANGLE

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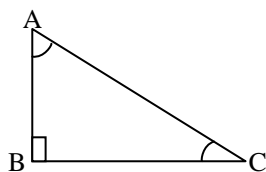
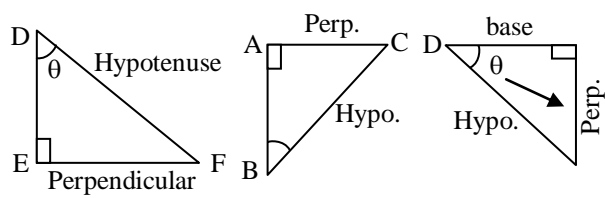
Trigonometry is the branch of mathematics in which we study of relationships between the sides & angles of a triangle.

Fact : In Greek words :
Tri = three
gon = sides
metron = measure

The ratio of sides of a right angle triangle with respect to acute angles are called "Trigonometric ratios of the angle".

RIGHT ANGLE TRIANGLE

1. A Δ having one angle equal to 90° is called right angle Δ .
2. The sum of other two acute (Less than 90°) angles is 90° . (or both acute angles are complementary)
3. The side opposite to 90° , is called hypotenuse, it is longest side in Δ .
4. The side opposite to given one acute angle is perpendicular.
5. The rest (IIIrd) side is base.



	Hypotenuse	Perpendicular	Base
for $\angle A$	AC	BC	AB
for $\angle C$	AC	AB	BC