

$$1 \text{ m} = 3.2808' \text{ (feet)}$$

$$1 \text{ m} = 39.37 \text{ Inch}$$

$$1 \text{ Mile} = 1.609 \text{ km}$$

## 2. Mass

Mass is the property of matter by which we can compare the action of one body with that of another. This property manifests itself as gravitational attraction between two bodies and provides a quantitative measure of the resistance of matter to a change in velocity. Some important mass conversion factors are given below

$$1 \text{ Kg} = 2.204 \text{ lb}_m$$

## 3. Time

Time is the measure of the succession of events and is a basis quantity in dynamic. Time is not directly involved in the analysis of statics problems but it has importance in dynamics.

### Systems of units

In engineering mechanics length, mass, time and force are the basic units used therefore; the following are the units systems are adopted in the engineering mechanics

#### 1. International System of Units (SI):

In SI system of units the basic units are length, time, and mass which are arbitrarily defined as the meter (m), second (s), and kilogram (kg). Force is the derived unit.

$$1 \text{ N} = 1 \text{ kg} \cdot 1 \text{ m/s}^2$$

#### 2. CGS systems of units

In CGS system of units, the basic units are length, time, and mass which are arbitrarily defined as the centimeter (cm), second (s), and gram (g). Force is the derived units

$$1 \text{ Dyne} = 1 \text{ g} \cdot 1 \text{ cm/s}^2$$

#### 3. British systems of units

In CGS system of units, the basic units are length, time, and mass which are arbitrarily defined as the centimeter (cm), second (s), and gram (g). Force is the derived units

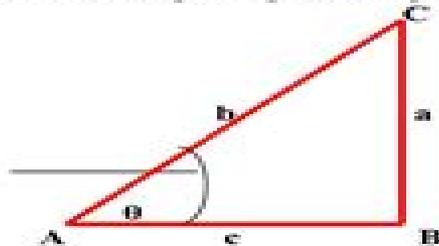
$$1 \text{ lb} = 1 \text{ lb}_g \cdot 1 \text{ ft/s}^2$$

#### 4. U.S. Customary Units

The basic units are length, time, and force which are arbitrarily defined as the foot (ft), second (s), and pound (lb). Mass is the derived unit.

### Trigonometry

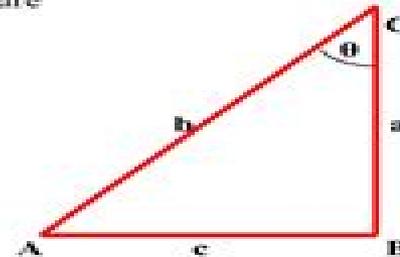
The measurement of the triangle sides and angles is called trigonometry. Let us consider right-angled triangle ABC as shown in figure



Then the following ratio can be considered for both the triangles

$$\sin \theta = \text{per/hyp} = a/b$$

$$\cos \theta = \text{base/hyp} = c/b$$



$$\sin \theta = \text{per/hyp} = c/b$$

$$\cos \theta = \text{base/hyp} = a/b$$

# 1st Year Civil Engineering Mechanics Notes

**Terry C. Jones**



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