

### 1.6. RESOLUTION OF A FORCE

Resolution of a force means "finding the components of a given force in two given directions."

Let a given force be  $R$  which makes an angle  $\theta$  with  $X$ -axis as shown in Fig. 1.14. It is required to find the components of the force  $R$  along  $X$ -axis and  $Y$ -axis.

Components of  $R$  along  $X$ -axis =  $R \cos \theta$ .

Component of  $R$  along  $Y$ -axis =  $R \sin \theta$ .

Hence, the resolution of forces is the process of finding components of forces in specified directions.

### 1.7. RESOLUTION OF A NUMBER OF COPLANAR FORCES

Let a number of coplanar forces (forces acting in one plane are called co-planar forces)  $R_1, R_2, R_3, \dots$  are acting at a point as shown in Fig. 1.15.

- Let
- $\theta_1$  = Angle made by  $R_1$  with  $X$ -axis
  - $\theta_2$  = Angle made by  $R_2$  with  $X$ -axis
  - $\theta_3$  = Angle made by  $R_3$  with  $X$ -axis
  - $H$  = Resultant component of all forces along  $X$ -axis
  - $V$  = Resultant component of all forces along  $Y$ -axis
  - $R$  = Resultant of all forces
  - $\theta$  = Angle made by resultant with  $X$ -axis.

Each force can be resolved into two components, one along  $X$ -axis and other along  $Y$ -axis.

Component of  $R_1$  along  $X$ -axis =  $R_1 \cos \theta_1$

Component of  $R_1$  along  $Y$ -axis =  $R_1 \sin \theta_1$ .

Similarly, the components of  $R_2$  and  $R_3$  along  $X$ -axis and  $Y$ -axis are  $(R_2 \cos \theta_2, R_2 \sin \theta_2)$  and  $(R_3 \cos \theta_3, R_3 \sin \theta_3)$  respectively.

Resultant components along  $X$ -axis

= Sum of components of all forces along  $X$ -axis.

$$\therefore H = R_1 \cos \theta_1 + R_2 \cos \theta_2 + R_3 \cos \theta_3 + \dots \quad \dots(1.6)$$

Resultant component along  $Y$ -axis.

= Sum of components of all forces along  $Y$ -axis.

$$\therefore V = R_1 \sin \theta_1 + R_2 \sin \theta_2 + R_3 \sin \theta_3 + \dots \quad \dots(1.7)$$

$$\text{Then resultant of all the forces, } R = \sqrt{H^2 + V^2} \quad \dots(1.8)$$

$$\text{The angle made by } R \text{ with } X\text{-axis is given by, } \tan \theta = \frac{V}{H} \quad \dots(1.9)$$

**Problem 1.10.** Two forces are acting at a point  $O$  as shown in Fig. 1.16. Determine the resultant in magnitude and direction.

**Sol.** The above problem has been solved earlier. Hence it will be solved by resolution of forces.

Force  $P = 50$  N and force  $Q = 100$  N.

Let us first find the angles made by each force with  $X$ -axis.

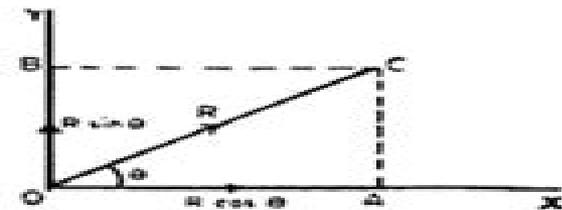


Fig. 1.14

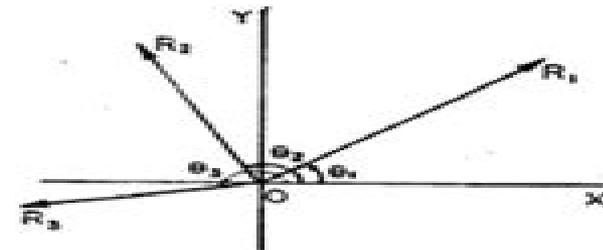


Fig. 1.15

# Engineering Mechanics By Koteeswaran

**Liyong Dong**



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