

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 θ 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
- θ_1 = Angle made by R_1 with X -axis
 - θ_2 = Angle made by R_2 with X -axis
 - θ_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
 - θ = 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.

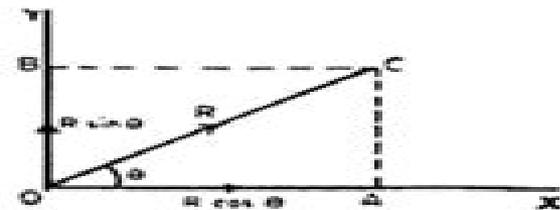


Fig. 1.14

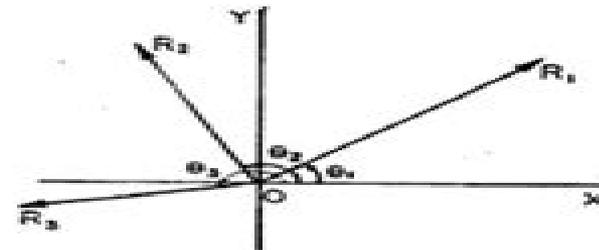


Fig. 1.15

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