moving with uniform velocity is a zero vector.

- (b) Resultant vector: The resultant of two or more vectors is that single vector, which produces the same effect, as produced by all the vectors together.
- (c) Negative vector (opposite vector): A negative vector of a given vector is a vector of the same magnitude but opposite in direction to that of the given vector.

In Fig. 2.1, \tilde{B} is a negative vector to \tilde{A} .

Fig. 2.1: Negative vector.

(d) Equal vector: Two vectors A and B representing same physical quantity are said to be equal if and only if they have the same magnitude and direction. Two equal vectors are shown in Fig. 2.2.



Fig. 2.2: Equal vectors.

(e) Position vector: A vector which gives the position of a particle at a point with respect to the origin of a chosen coordinate system is called the position vector of the particle.

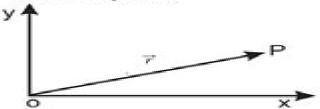


Fig 2.3: Position vector.

In Fig 2.3, $\overrightarrow{r} = \overrightarrow{OP}$ is the position vector of the particle present at P.

(f) Unit vector: A vector baving unit magnitude in a given direction is called a unit vector in that direction. If M is a non-zero vector i.e. its magnitude M = |M| is not zero, the unit vector along \overline{M} is written as \widehat{u}_w and is given by $\overline{M} = \widehat{u}_w M \qquad ---- (2.1)$

or,
$$\hat{u}_w = \frac{\overline{M}}{M}$$
 --- (2.2)

Hence \hat{u}_{ii} has magnitude unity and has the same direction as that of \hat{M} . We use \hat{i}_{i} , \hat{J}_{i} , and \hat{k}_{i} , respectively, as unit vectors along the x, y and z directions of a rectangular (three dimensional) coordinate system.

$$\hat{u}_{i} = \hat{i}_{i}, \hat{u}_{j} = \hat{j} \text{ and } \hat{u}_{i} = \hat{k}$$

 $\therefore \hat{i} = \frac{\vec{x}}{x}, \hat{j} = \frac{\vec{y}}{y} \text{ and } \hat{k} = \frac{\vec{z}}{z}$ --- (2.3)

Here \bar{x} , \bar{y} and \bar{z} are vectors along x, y and z axes, respectively.

2.3 Vector Operations:

2.3.1 Multiplication of a Vector by a Scalar:

Multiplying a vector \bar{P} by a scalar quantity, say s, yields another vector. Let us write

$$\vec{Q} = s\vec{P}$$
 --- (2.4)

 \overline{Q} will be a vector whose direction is the same as that of \overline{P} and magnitude is s times the magnitude of \overline{P} .

2.3.2 Addition and Subtraction of Vectors:

The addition or subtraction of two or more vectors of the same type, i.e., describing the same physical quantity, gives rise to a single vector, such that the effect of this single vector is the same as the net effect of the vectors which have been added or subtracted.

It is important to understand that only vectors of the same type (describing same physical quantity) can be added or subtracted e.g. force \vec{F}_r and force \vec{F}_r can be added to give the resultant force $\vec{F} = \vec{F}_r + \vec{F}_r$. But a force vector can not be added to a velocity vector.

It is easy to find addition of vectors \overline{AB} and \overline{BC} having the same or opposite direction but different magnitudes. If individual vectors are parallel (i.e., in the same direction), the magnitude of their resultant is the addition of individual magnitudes, i.e., $|\overline{AC}| = |\overline{AB}| + |\overline{BC}|$

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