
VECTOR

VECTORS AND SCALARS :

The physical quantities (we deal with) are generally of two types:

Scalar Quantity:

A quantity which has magnitude but no sense of direction is called scalar quantity (or scalar), e.g., mass, volume, density, speed etc.

Vector Quantity:

A quantity which has magnitude as well as a sense of direction in space and obey the laws of vector algebra is called a vector quantity, e.g., velocity, force, displacement etc.

Notation and Representation of Vectors :

Vectors are represented by $\vec{a}$, $\vec{b}$, $\vec{c}$ and their magnitude (modulus) are represented by a , b , c , or $|\vec{a}|$, $|\vec{b}|$, $|\vec{c}|$. The vectors are represented by directed line segments.



For example, line segment $\overrightarrow{OP}$ represents a vector with magnitude OP (length of line segment), arrow denotes its direction. O is initial point and P is terminal point, also called as head & tail of vector respectively.

KINDS OF VECTORS :

1. **Zero or null vector :** A vector whose magnitude is zero is called zero or null vector and it is denoted by 0 or $\vec{0}$. The initial and terminal points of the directed line segment representing zero vector are coincident and its direction is arbitrary.
2. **Unit vector :** A vector of unit magnitude is called a unit vector. A unit vector in the direction of $\vec{a}$ is denoted by $\hat{a}$. Thus

$$\hat{a} = \frac{\vec{a}}{|\vec{a}|} = \frac{\text{Vector } a}{\text{Magnitude of } a}$$

Note :

- (i) $|\hat{a}| = 1$
 - (ii) Unit vectors parallel to x -axis, y -axis and z -axis are denoted by $\hat{i}$, $\hat{j}$ and $\hat{k}$ respectively.
 - (iii) Two unit vectors may not be equal unless they have the same direction.
3. **Equal Vectors :** Two vectors $\vec{a}$ and $\vec{b}$ are said to be equal, if
 - (a) $|\vec{a}| = |\vec{b}|$
 - (b) they have the same sense of direction
 4. **Co-initial vectors:** Vectors having same initial point.



Vectors And Scalars Answer Key

JS Bruner



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