# 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  $\overrightarrow{a}$ ,  $\overrightarrow{b}$ ,  $\overrightarrow{c}$  and their magnitude (modulus) are represented by a, b, c, or  $|\overrightarrow{a}|$ ,  $|\overrightarrow{b}|$ ,  $|\overrightarrow{c}|$ . 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 :

- Zero or null vector: A vector whose magnitude is zero is called zero or null vector and it is denoted by
  0 or 0. The initial and terminal points of the directed line segment representing zero vector are coincident
  and its direction is arbitrary.
- Unit vector: A vector of unit magnitude is called a unit vector. A unit vector in the direction of ä is denoted by å. Thus

$$\ddot{a} = \frac{\ddot{a}}{|\ddot{a}|} = \frac{Vector a}{Magnitude of a}$$

Note:

- (i)  $|\hat{\mathbf{a}}| = 1$
- (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 a and 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 Scsalars Answer Key**

Sergey E. Lyshevski

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