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# VECTOR

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## 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

**Christian Drosten**



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