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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  $\vec{0}$  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

**Judd E. Hollander**



## **Vectors And Scalars Answer Key:**

## **Vectors And Scsalars Answer Key** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has be evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Vectors And Scsalars Answer Key**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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