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Vectors

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~~CBSE Class 12 Maths Notes Chapter 10 Vector Algebra. Vector: Those quantities which have magnitude, as well as direction, are called vector quantities or vectors. Note: Those quantities which have only~~

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magnitude and no direction, are called scalar quantities.

Representation of Vector: A directed line segment has magnitude as well as direction, so it is called vector denoted as \vec{a} or simply as a .

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vector are force, velocity, acceleration, displacement, torque, momentum, gravitational force, electric and magnetic intensities etc. A vector is represented by a Roman letter in bold face and its magnitude, by the same letter in italics. Thus \vec{V} means vector and V is magnitude. 6.3 Vector Representations:

~~Chapter 6 Vectors and Scalars~~

Vector Algebra Class 12 Notes - Chapter 10 Position of a Vector If we are provided with a point $Q(x, y, z)$ and the magnitude is given by r . The direction ratios for a vector is its scalar components and is responsible for its projections along the respective axes.

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~~CBSE Class 12 Math Notes Chapter 10 Vector Algebra~~

(vi) The scalar product of vectors is distributive over vector addition. (a) $a \cdot (b + c) = a \cdot b + a \cdot c$ (left distributive) (b) $(b + c) \cdot a = b \cdot a + c \cdot a$ (right distributive) Note Length of a vector as a scalar product If a be any vector, then the scalar product $a \cdot a = |a|^2 = |a|^2 \cos 0 \Rightarrow |a|^2 = a^2 \Rightarrow a = |a|$

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CHAPTER 3. VECTOR ANALYSIS (a) Base vectors (b) Components of $A = x\hat{i} + y\hat{j} + z\hat{k}$ Figure 3-2 Cartesian coordinate system: (a) base vectors $\hat{x}, \hat{y}, \hat{z}$, and (b) components of vector A . Figure 3.1: Expressing the vector A in terms the Cartesian unit vec-tors. 3.1.1 Equality of Two

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Vectors

~~Vector Analysis~~

Rotation of a Vector (i) If a vector is rotated through an angle θ , which is not an integral multiple of 2π , the vector changes. (ii) If the frame of reference is rotated or translated, the given vector does not change. The components of the vector may, however, change.
Resolution of a Vector into Rectangular Components

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$df = \frac{f}{x} dx + \frac{f}{y} dy + \frac{f}{z} dz = dx \frac{f}{x} + dy \frac{f}{y} + dz \frac{f}{z} = dr \cdot \nabla f = dq_j \frac{f}{q_j}$.
j (in a general coordinate system, q. k) Intrinsic (absolute) derivative, $df/dt = [f/x] dx/dt + [f/y] dy/dt + [f/z] dz/dt = dx/dt [f/x] + dy/dt [f/y] + dz/dt [f/z]$ (in general system) $= [dr/dt \cdot \nabla] f$.

~~Chapter IV: Vector Analysis~~

Different Types of Vectors (i) Equal Vectors Two vectors of equal magnitude, in same direction are called equal vectors. (ii) Negative Vectors Two vectors of equal magnitude but in opposite directions are called negative vectors. (iii) Zero Vector or Null Vector A vector whose magnitude is zero is known as a zero or null vector.

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Vector Arithmetic – In this section we will discuss the mathematical and geometric interpretation of the sum and difference of two vectors. We also define and give a geometric interpretation for scalar multiplication. We also give some of the basic properties of vector arithmetic and introduce the common i, j, k notation for vectors.

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From point A draw a perpendicular AB on X-axis. Suppose OB and BA represents two vectors. Vector O'A is parallel to X-axis and vector BA is parallel to Y-axis. Magnitude of these vectors are V_x and V_y respectively. The sum of these vectors is equal to vector \vec{V} . Thus V_x and V_y are the rectangular components of vector v .
figure::

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(ix) Localized Vectors A vector which is drawn parallel to a given vector through a specified point in space is called localized vector.
(x) Coplanar Vectors A system of vectors is said to be coplanar, if

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their supports are parallel to the same plane. Otherwise they are called non-coplanar vectors.

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a) A vector represents the length and direction of a line segment. The length is denoted $|V|$. A unit vector U is a vector of length 1. The direction of a vector V is the unit vector U parallel to V : $U = \frac{V}{|V|}$. b) Given two points P ; Q , the vector from P to Q is denoted \vec{PQ} .
~ c) Addition. The sum, or resultant, $V +$

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