

(54)

Vectors

Any directed line segment is called a vector and is usually represented by \vec{a} and is denoted as \vec{a} or \vec{a} .

(1)

Vectors contains two informations: direction and magnitude for vector. magnitude for \vec{a} is denoted by a or $|\vec{a}|$ and represents length of the line segment.

$$|\vec{a}| = |\vec{a}|$$

(but in practice, we don't draw vectors up to the scale)

(2)

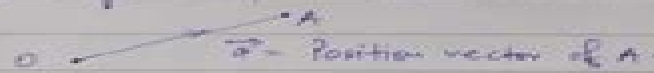
Zero vector or null vector is a vector with zero magnitude and indeterminate direction and is denoted by $\vec{0}$.

(3)

Unit vector is a vector of magnitude 1 and is usually denoted by \hat{a} i.e. $|\hat{a}| = 1$

(4)

Position vector of a point is the vector obtained by joining the point with origin (reference point) and directed towards it.



Position vector of a point is unique.

(5)

Free or sliding vectors: A vector is called free vector if it can be translated in the space while protecting its magnitude & direction. The physical effect caused by free vectors remain unchanged with the location of vector.

eg: For a linear motion, vector changes its position for a fixed vector initial but final point can be initial and final point are fixed.

Initial point

For position vector, always origin is initial point.

(6)

Fixed Vectors: If point of application of vector is fixed, then it is called fixed vector. The physical effect caused by fixed vector will change with point of application.



Free vector cannot be rotated independently of location, but can be.

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