

Vectors

12-03-23

13 Vectors in two dimensions

- use vectors in any form, e.g. $\begin{bmatrix} x \\ y \end{bmatrix}$, $\vec{AB}$, $\mathbf{p}$, $u\mathbf{i} - v\mathbf{j}$
 - know and use position vectors and unit vectors
 - find the magnitude of a vector; add and subtract vectors and multiply vectors by scalars
 - compose and resolve velocities
- } Separately

① Scalar Vs Vector

Scalar: Magnitude only (speed, distance, time)

Vector: Magnitude & direction (velocity, displacement, acceleration)

② Representation of Vectors

①

$$\vec{AB} = \begin{bmatrix} 3 \\ 2 \end{bmatrix} \rightarrow \begin{array}{l} x\text{-comp} \\ y\text{-comp} \end{array}$$

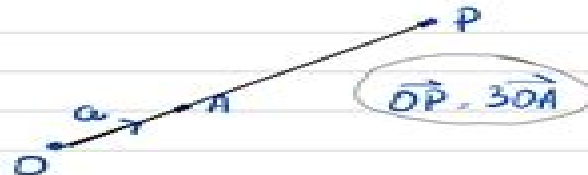


② $\vec{AB} = 3\mathbf{i} + 2\mathbf{j}$ ($\mathbf{i}$ & $\mathbf{j}$ form)

③

$$\vec{OA} = \mathbf{a}$$

$$\vec{OP} = 3\mathbf{a}$$



③ Magnitude: Length of a vector

$$\vec{AB} = \begin{bmatrix} x \\ y \end{bmatrix} \quad |AB| = \sqrt{x^2 + y^2}$$

Ma40sa Vectors Notes Mr F Teach

JA Banks



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