VECTORS

VECTORS

DEFINITION:-

A vector is a measurement or a quantity that has both magnitude and direction.

NOTATIONS:-

Standard notation for vectors in Mathematica is {a,b} , which represents that the vector has its tail at the origin and head at the point with x coordinate a and y coordinate b. Another standard notation for this vector is ai+bj, where i and j denote the unit vectors in the x and y directions respectively.

VECTORS

OPERATION ON MATHEMATICA:-

- Addition and scaler multiplication
- Dot product
- Cross product
- Nom
- Angle between vectors
- Vector in plane
- vector addition

VECTORS

COMMAND USED:-

- Nom
- Arc Cos[(a.b)(Nom[a] Nom[b])]
- %Degree
- Cross
- Graphics [{ Arrow[{{0 , 0} , {a , b}}] , Arrow[{{0 , 0} , {c , d }}]}]
- Length
- Vector Q
- Projection

VECTORS

- Projection
- Array
- Constant Array
- Angle Vector[Q]
- Row
- Column