

# VECTOR CALCULUS

- Basis
- Vector differential Calculus (✓)
- \* Vector Integral Calculus

→ In general there are two types of quantities

- i) Vector quantity = Magnitude (Direction)
- ii) Scalar = only magnitude

$$\textcircled{1} \vec{A} = a_x \hat{i} + a_y \hat{j} + a_z \hat{k}$$

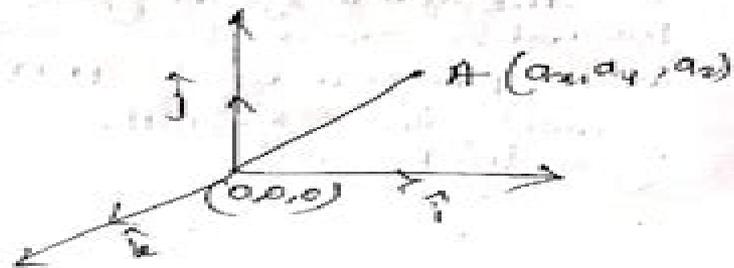
$$(a_x, a_y, a_z) = (1, 2, 3)$$

$$\vec{A} = \hat{i} + 2\hat{j} + 3\hat{k}$$

$$\text{if } (a_x, a_y, a_z) = (x, y, z)$$

$$\vec{A}(x, y, z) = x\hat{i} + y\hat{j} + z\hat{k}$$

→ Vector point function



$$\textcircled{2} \text{ Magnitude } = |\vec{A}| = \sqrt{a_x^2 + a_y^2 + a_z^2} = \pm \text{Value}$$

$$\textcircled{3} \text{ Unit Vector in direction of } \vec{A}$$

$$\hat{A} = \frac{\vec{A}}{|\vec{A}|}$$

$$\textcircled{4} \text{ product of Vector}$$

$$a) \text{ General product: } \vec{A}(a)$$

Vector applied on Scalar only mag. will change.

# Applications Of Vector Calculus In Engineering

**Hongru Du**



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