

VECTOR CALCULUS

Dot product of 2 vectors :-

$$\text{Let } \vec{a} = a_1\hat{i} + a_2\hat{j} + a_3\hat{k}$$

$$\vec{b} = b_1\hat{i} + b_2\hat{j} + b_3\hat{k}$$

$$\bullet \vec{a} \cdot \vec{b} = |\vec{a}| |\vec{b}| \cos\theta \bullet \vec{a} \cdot \vec{b} = a_1b_1 + a_2b_2 + a_3b_3$$

$$|\vec{a}| = \sqrt{a_1^2 + a_2^2 + a_3^2} \quad |\vec{b}| = \sqrt{b_1^2 + b_2^2 + b_3^2}$$

Note:- (i) If \vec{a} & \vec{b} are orthogonal $\vec{a} \cdot \vec{b} = 0$

(ii) If \vec{a} & \vec{b} are parallel $\vec{b} = \lambda \vec{a}$

(iii) find the angle b/w $\vec{a} = 3\hat{i} + 4\hat{j} + 2\hat{k}$, $\vec{b} = 2\hat{i} - 5\hat{k}$

$$\rightarrow \vec{a} \cdot \vec{b} = |\vec{a}| |\vec{b}| \cos\theta$$

$$0 + 8 - 5 = \sqrt{3^2 + 4^2 + 2^2} \cdot \sqrt{2^2 + 5^2} \cos\theta$$

$$\cos\theta = \frac{3}{\sqrt{26 + 25}} \rightarrow \theta = ?$$

$$(\vec{a}) = \frac{\vec{a}}{|\vec{a}|}$$

unit vector along \vec{a}

$$\bullet \text{component of } \vec{b} \text{ along } \vec{a} = \vec{b} \cdot \frac{\vec{a}}{|\vec{a}|}$$

$$\bullet \text{component of } \vec{a} \text{ along } \vec{b} = \vec{a} \cdot \frac{\vec{b}}{|\vec{b}|}$$

(iv) find the comp of (i) \vec{a} along \vec{b} (ii) \vec{b} along \vec{a}

$$\vec{a} = 2\hat{i} - 2\hat{j} + \hat{k}, \vec{b} = \hat{i} + 2\hat{j} - 3\hat{k}$$

$$\rightarrow (i) \frac{\vec{a} \cdot \vec{b}}{|\vec{b}|}, (ii) \frac{\vec{b} \cdot \vec{a}}{|\vec{a}|}$$

Cross product of 2 vectors :-

$$\bullet \vec{a} \times \vec{b} = \frac{|\vec{a}| |\vec{b}| \sin\theta}{|\vec{a} \times \vec{b}|} \hat{n} = \frac{\vec{a} \times \vec{b}}{|\vec{a} \times \vec{b}|}$$

$$\bullet \vec{a} \times \vec{b} = \begin{vmatrix} \hat{i} & \hat{j} & \hat{k} \\ a_1 & a_2 & a_3 \\ b_1 & b_2 & b_3 \end{vmatrix} \bullet \vec{a} \times \vec{b} = -\vec{b} \times \vec{a}$$

$$\bullet \text{Area of } \triangle ABC = \frac{1}{2} |\vec{a} \times \vec{b}|$$

$$= \frac{1}{2} |\vec{a} \times \vec{b}|$$

$$= \frac{1}{2} |\vec{a}| |\vec{b}| \sin\theta$$

$$\bullet \text{Area of parallelogram} = \text{Area of } \triangle_1 + \text{Area of } \triangle_2$$

$$\bullet \text{Area of } \triangle_1 = \frac{1}{2} ab \sin\theta = \frac{1}{2} |\vec{a} \times \vec{b}|$$

$$\bullet \text{Area of parallelogram} = 2 \cdot \triangle_1 = |\vec{a} \times \vec{b}|$$



• vector triple product :- $\vec{a} \cdot (\vec{b} \times \vec{c}) = (\vec{a} \cdot \vec{b})\vec{c} - (\vec{a} \cdot \vec{c})\vec{b}$

• Scalar triple product $\Rightarrow \vec{a} \cdot \vec{b} \cdot \vec{c} = \vec{a} \cdot (\vec{b} \times \vec{c})$

$$\bullet \vec{a} \cdot \vec{b} \cdot \vec{c} = \begin{vmatrix} a_1 & a_2 & a_3 \\ b_1 & b_2 & b_3 \\ c_1 & c_2 & c_3 \end{vmatrix}$$

(i) Find the area of \triangle whose vertices are

$$A(3, -1, 2), B(1, -4, -3) \text{ & } C(4, -3, 1)$$

$$\Rightarrow \text{Area of } \triangle = \frac{1}{2} |\vec{AB} \times \vec{AC}|$$

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

$$\vec{B} = \hat{i} - 4\hat{j} - 3\hat{k} \quad \vec{AB} = \vec{B} - \vec{A} (3, -1, 2)$$

$$\vec{C} = 4\hat{i} - 3\hat{j} - \hat{k}$$

$$\vec{AC} = -2\hat{i} - 5\hat{k}$$

$$\vec{AB} \times \vec{AC} = \hat{i} - 2\hat{j} - \hat{k}$$

$$\vec{AB} \times \vec{AC} = \begin{vmatrix} \hat{i} & \hat{j} & \hat{k} \\ -2 & 0 & -5 \\ 1 & -2 & -1 \end{vmatrix} \Rightarrow -10\hat{i} - 7\hat{j} + 4\hat{k}$$

$$|\vec{AB} \times \vec{AC}| = \sqrt{(-10)^2 + (-7)^2 + (4)^2}$$

$$\text{Area of } \triangle = \frac{1}{2} \times \sqrt{165}$$

(ii) find the unit vector \hat{n} to both the vectors $\hat{i} - 2\hat{j} + 3\hat{k}$ & $\hat{i} + 2\hat{j} - \hat{k}$

$$\Rightarrow \vec{n} \times \vec{g} = \frac{|\vec{a}| |\vec{b}| \sin\theta}{|\vec{a} \times \vec{b}|} \hat{n} \Rightarrow \hat{n} = \frac{-4\hat{i} + 4\hat{j} + 4\hat{k}}{4\sqrt{3}}$$

Vector differential :-

$$\bullet \text{Del (or) Nabla} (\nabla) = \frac{\partial}{\partial x} \hat{i} + \frac{\partial}{\partial y} \hat{j} + \frac{\partial}{\partial z} \hat{k}$$

* Gradient :- Scalar \rightarrow vector
 $f(u, v, z) \rightarrow$ scalar fn

$$\bullet \nabla f = \text{grad } f = \frac{\partial f}{\partial x} \hat{i} + \frac{\partial f}{\partial y} \hat{j} + \frac{\partial f}{\partial z} \hat{k}$$

* Divergence :- Vector \rightarrow scalar

$$\text{let } \vec{F} = f_1\hat{i} + f_2\hat{j} + f_3\hat{k}$$

$$\bullet \nabla \cdot \vec{F} = \left(\frac{\partial}{\partial x} \hat{i} + \frac{\partial}{\partial y} \hat{j} + \frac{\partial}{\partial z} \hat{k} \right) (f_1\hat{i} + f_2\hat{j} + f_3\hat{k})$$

$$\bullet \nabla \cdot \vec{F} = \frac{\partial}{\partial x} f_1 + \frac{\partial}{\partial y} f_2 + \frac{\partial}{\partial z} f_3$$

• Solenoidal
 • Divergence free
 • In comp.

* Curl :- Vector \rightarrow vector

$$\bullet \nabla \times \vec{F} = \begin{vmatrix} \hat{i} & \hat{j} & \hat{k} \\ \frac{\partial}{\partial x} & \frac{\partial}{\partial y} & \frac{\partial}{\partial z} \\ f_1 & f_2 & f_3 \end{vmatrix} \bullet \nabla \times \vec{F} = 0$$

• irrotational, conservative

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