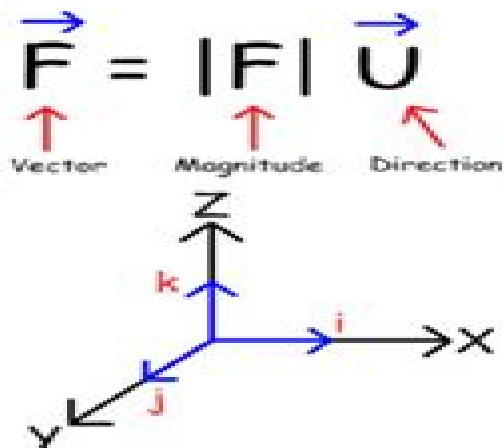
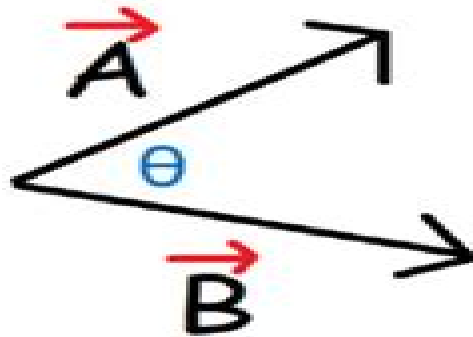
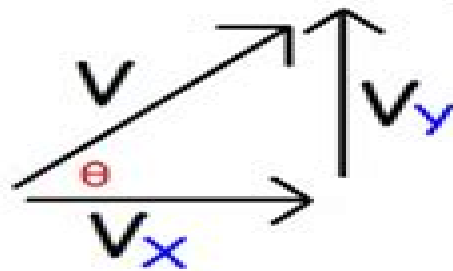


Vectors – Formula Sheet:



2D Vectors:

$$V_x = V \cos(\theta)$$

$$V_y = V \sin(\theta)$$

$$\theta = \tan^{-1} \left(\frac{V_y}{V_x} \right)$$

$$|V| = \sqrt{V_x^2 + V_y^2}$$

$$\vec{V} = |V| \cos(\theta) \mathbf{i} + |V| \sin(\theta) \mathbf{j}$$

Scalar Dot Product:

$$\vec{A} \cdot \vec{B} = |A| |B| \cos(\theta) = A_x B_x + A_y B_y + A_z B_z$$

$$|A| = \sqrt{A_x^2 + A_y^2 + A_z^2}$$

$$|B| = \sqrt{B_x^2 + B_y^2 + B_z^2}$$

Vector Cross Product:

$$\vec{A} \times \vec{B} = |A| |B| \sin(\theta) \vec{r} = \begin{vmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ A_x & A_y & A_z \\ B_x & B_y & B_z \end{vmatrix}$$

$$\vec{A} \times \vec{B} = (A_y B_z - A_z B_y) \mathbf{i} + (A_z B_x - A_x B_z) \mathbf{j} + (A_x B_y - A_y B_x) \mathbf{k}$$

Unit Vector – A vector with a magnitude of 1 that is used to give direction to another vector.

$$\vec{U} = \frac{\vec{V}}{|V|}$$

Standard Unit Vectors:

$$\begin{aligned} \mathbf{i} &= \langle 1, 0, 0 \rangle & \mathbf{i} \cdot \mathbf{i} &= 1 & \mathbf{i} \cdot \mathbf{j} &= 0 \\ \mathbf{j} &= \langle 0, 1, 0 \rangle & \mathbf{j} \cdot \mathbf{j} &= 1 & \mathbf{j} \cdot \mathbf{k} &= 0 \\ \mathbf{k} &= \langle 0, 0, 1 \rangle & \mathbf{k} \cdot \mathbf{k} &= 1 & \mathbf{i} \cdot \mathbf{k} &= 0 \end{aligned}$$

$$\begin{aligned} \mathbf{i} \times \mathbf{j} &= \mathbf{k} & \mathbf{j} \times \mathbf{i} &= -\mathbf{k} & \mathbf{i} \times \mathbf{i} &= 0 \\ \mathbf{j} \times \mathbf{k} &= \mathbf{i} & \mathbf{k} \times \mathbf{j} &= -\mathbf{i} & \mathbf{j} \times \mathbf{j} &= 0 \\ \mathbf{k} \times \mathbf{i} &= \mathbf{j} & \mathbf{i} \times \mathbf{k} &= -\mathbf{j} & \mathbf{k} \times \mathbf{k} &= 0 \end{aligned}$$

Calculus And Vectors Formula Sheet

John Fitz Randolph



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