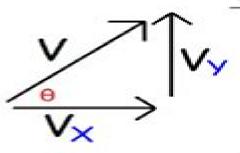
Vectors - Formula Sheet:



2D Vectors:

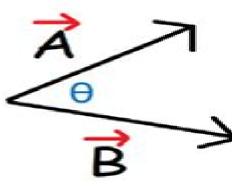
$$V_X = V cos(\theta)$$

 $V_Y = V sin(\theta)$

$$\theta = tan^{-1} \left(\frac{V_{\gamma}}{V_{\chi}} \right)$$

$$|\mathbf{v}| = \sqrt{v_X^2 + v_Y^2}$$

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



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:

$$\vec{A} \times \vec{B} = |A| |B| \sin(\theta) \hat{r} = \begin{vmatrix} i & j & k \\ A_X & A_Y & A_Z \\ B_X & B_Y & B_Z \end{vmatrix}$$

$$\vec{A} \times \vec{B} = (A_Y B_Z - A_Z B_Y) i + (A_Z B_X - A_X B_Z) j + (A_X B_Y - A_Y B_X) k$$



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

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

Standard Unit Vectors:

$$i = < 1,0,0 >$$
 $i \cdot i = 1$ $i \cdot j = 0$
 $j = < 0,1,0 >$ $j \cdot j = 1$ $j \cdot k = 0$
 $k = < 0,0,1 >$ $k \cdot k = 1$ $i \cdot k = 0$

$$\begin{array}{llll} i \ x \ j = k & j \ x \ i = -k & i \ x \ i = 0 \\ j \ x \ k = i & k \ x \ j = -i & j \ x \ j = 0 \\ k \ x \ i = j & i \ x \ k = -j & k \ x \ k = 0 \end{array}$$

Mcv4u Vector Formula Sheet

Jonathan Tullis



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