Formula
$f(x) = inx$ $f'(x) = \frac{1}{x}$
$f(x) = \ln [g(x)]$ $f'(x) = \frac{1}{g(x)}g'(x)$
$f(x) = \ln(\alpha x)$ $f'(x) = \frac{1}{x}$
$f(x) = e^x$ $f'(x) = e^x$
$f(x) = e^{g(x)}$ $f'(x) = e^{g(x)}g'(x)$
$f(x) = a^x$ $f'(x) = a^x(lna)$
$f(x) = a^{g(x)}$ $f'(x) = a^{g(x)}(\ln a)g'(x)$
$y = sinx$ $\frac{dy}{dx} = cosx$
$y = cosx$ $\frac{dy}{dx} = -sinx$
$y = tanx$ $\frac{dy}{dx} = sec^2 x$ .

Magnitude of a position vector **Dot Product** Unit Vector

Projection

Magnitude of Projection

 $|\overline{P_1P_2}| = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2 + (z_2 - z_1)^2}$  $\vec{a} \cdot \vec{b} = |\vec{a}| |\vec{b}| cos\theta$   $\theta = \frac{1}{|\vec{v}|} \vec{v}$ 

 $\begin{array}{ll} proj_{\vec{b}}\vec{a} = |\vec{a}|\cos\theta\left(\frac{1}{|\vec{b}|}\vec{b}\right) & proj_{\vec{b}}\vec{a} = \left(\frac{\vec{a}\cdot\vec{b}}{|\vec{b}|^3}\right)\vec{b} \\ |proj_{\vec{b}}\vec{a}| = \frac{\vec{a}\cdot\vec{b}}{|\vec{b}|} & |proj_{\vec{b}}\vec{a}| = |\vec{a}|\cos\theta \end{array}$ 

	2D Lines	3D Lines	Planes
Vector Equation	$[x, y] = [x_0, y_0] + \epsilon[m_1, m_2]$	$[x, y, z] = [x_0, y_0, z_0] + \epsilon[m_0, m_2, m_3]$	$[x, y, z] = [x_0, y_0, x_0] + r[a_0, a_1, a_2] + r[b_1, b_2, b_3]$
Parametric Equation	$x = x_o + t m_1$ $y = y_o + t m_2$	$x = x_o + tm_1$ $y = y_o + tm_2$ $z = z_o + tm_3$	$x = x_o + ta_1 + sb_1$ $y = y_o + ta_2 + sb_2$ $z = z_o + ta_3 + sb_3$
Symmetric Equation	$\varepsilon = \frac{x - x_o}{m_1} = \frac{y - y_o}{m_2}$	$\varepsilon = \frac{x - x_o}{m_1} = \frac{y - y_o}{m_2} = \frac{z - z_o}{m_3}$	
Scalar	Ax + By + C = 0		Ax + By + Cz + D = 0

# **Mcv4u Formula Sheet**

**M Carnoy** 



The Enigmatic Realm of Mcv4u Formula Sheet: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Mcv4u Formula Sheet** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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