

| Function              | Formula             |                                  |
|-----------------------|---------------------|----------------------------------|
| Logarithmic           | $f(x) = \ln x$      | $f'(x) = \frac{1}{x}$            |
|                       | $f(x) = \ln [g(x)]$ | $f'(x) = \frac{1}{g(x)} g'(x)$   |
|                       | $f(x) = \ln (ax)$   | $f'(x) = \frac{1}{x}$            |
| Exponential           | $f(x) = e^x$        | $f'(x) = e^x$                    |
|                       | $f(x) = e^{g(x)}$   | $f'(x) = e^{g(x)} g'(x)$         |
|                       | $f(x) = a^x$        | $f'(x) = a^x (\ln a)$            |
|                       | $f(x) = a^{g(x)}$   | $f'(x) = a^{g(x)} (\ln a) g'(x)$ |
| Primary Trigonometric | $y = \sin x$        | $\frac{dy}{dx} = \cos x$         |
|                       | $y = \cos x$        | $\frac{dy}{dx} = -\sin x$        |
|                       | $y = \tan x$        | $\frac{dy}{dx} = \sec^2 x.$      |

Magnitude of a position vector

Dot Product

Unit Vector

Projection

Magnitude of Projection

$$|\vec{P}_1 \vec{P}_2| = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2 + (z_2 - z_1)^2}$$

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

$$\hat{v} = \frac{1}{|\vec{v}|} \vec{v}$$

$$\text{proj}_{\vec{b}} \vec{a} = |\vec{a}| \cos \theta \left( \frac{1}{|\vec{b}|} \vec{b} \right) \quad \text{proj}_{\vec{b}} \vec{a} = \left( \frac{\vec{a} \cdot \vec{b}}{|\vec{b}|^2} \right) \vec{b}$$

$$|\text{proj}_{\vec{b}} \vec{a}| = \frac{\vec{a} \cdot \vec{b}}{|\vec{b}|} \quad |\text{proj}_{\vec{b}} \vec{a}| = |\vec{a}| \cos \theta$$

|                     | 2D Lines   | 3D Lines  | Planes   |
|---------------------|--|---|--|
| Vector Equation     | $[x, y] = [x_0, y_0] + t[m_1, m_2]$                                | $[x, y, z] = [x_0, y_0, z_0] + t[m_1, m_2, m_3]$                                      | $[x, y, z] = [x_0, y_0, z_0] + t[a_1, a_2, a_3] + s[b_1, b_2, b_3]$  |
| Parametric Equation | $\begin{aligned} x &= x_0 + tm_1 \\ y &= y_0 + tm_2 \end{aligned}$ | $\begin{aligned} x &= x_0 + tm_1 \\ y &= y_0 + tm_2 \\ z &= z_0 + tm_3 \end{aligned}$ | $\begin{aligned} x &= x_0 + ta_1 + sb_1 \\ y &= y_0 + ta_2 + sb_2 \\ z &= z_0 + ta_3 + sb_3 \end{aligned}$ |
| Symmetric Equation  | $t = \frac{x - x_0}{m_1} = \frac{y - y_0}{m_2}$                    | $t = \frac{x - x_0}{m_1} = \frac{y - y_0}{m_2} = \frac{z - z_0}{m_3}$                 |  |
| Scalar              | $Ax + By + C = 0$  |   | $Ax + By + Cz + D = 0$   |

# Mcv4u Vector Formula Sheet

**Jacob T. Schwartz**



## **Mcv4u Vector Formula Sheet:**

## The Enigmatic Realm of **Mcv4u Vector 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 in short supply of extraordinary. Within the captivating pages of **Mcv4u Vector Formula Sheet** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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