

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 Formula Sheet

Ying-Ying Zheng



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Table of Contents Mcv4u Formula Sheet

1. Understanding the eBook Mcv4u Formula Sheet
 - The Rise of Digital Reading Mcv4u Formula Sheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Mcv4u Formula Sheet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mcv4u Formula Sheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mcv4u Formula Sheet
 - Personalized Recommendations
 - Mcv4u Formula Sheet User Reviews and Ratings
 - Mcv4u Formula Sheet and Bestseller Lists
5. Accessing Mcv4u Formula Sheet Free and Paid eBooks
 - Mcv4u Formula Sheet Public Domain eBooks
 - Mcv4u Formula Sheet eBook Subscription Services
 - Mcv4u Formula Sheet Budget-Friendly Options

6. Navigating Mcv4u Formula Sheet eBook Formats
 - ePub, PDF, MOBI, and More
 - Mcv4u Formula Sheet Compatibility with Devices
 - Mcv4u Formula Sheet Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mcv4u Formula Sheet
 - Highlighting and Note-Taking Mcv4u Formula Sheet
 - Interactive Elements Mcv4u Formula Sheet
8. Staying Engaged with Mcv4u Formula Sheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mcv4u Formula Sheet
9. Balancing eBooks and Physical Books Mcv4u Formula Sheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mcv4u Formula Sheet
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mcv4u Formula Sheet
 - Setting Reading Goals Mcv4u Formula Sheet
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mcv4u Formula Sheet
 - Fact-Checking eBook Content of Mcv4u Formula Sheet
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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