

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

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

Dot Product

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

Unit Vector

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

Projection

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

Magnitude of Projection

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

	2D Lines	3D Lines	Planes
Vector Equation	$[x, y] = [x_0, y_0] + t[m_1, m_2]$	$[x, y, z] = [x_0, y_0, z_0] + t[m_1, m_2, m_3]$	$[x, y, z] = [x_0, y_0, z_0] + r[a_1, a_2, a_3] + s[b_1, b_2, b_3]$
Parametric Equation	$x = x_0 + tm_1$ $y = y_0 + tm_2$	$x = x_0 + tm_1$ $y = y_0 + tm_2$ $z = z_0 + tm_3$	$x = x_0 + ta_1 + sb_1$ $y = y_0 + ta_2 + sb_2$ $z = z_0 + ta_3 + sb_3$
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

Jonathan Tullis



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