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

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Maths Centre Incorporating Science, Technology & Entrepreneurship Education

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