

Maths symbols in Latex

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MATHS SYMBOLS

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

quadratic

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \quad (1)$$

where

$$ax^2 + bx + c = 0 \quad (2)$$

Tensor Multilevel Super & Subscripting Eqn.3

$$T_{\theta\iota\nu\cdots\kappa\iota'}^{\alpha\iota\beta\iota'\cdots\zeta\iota'} = \Lambda^{\alpha\iota'}_{\mu}\Lambda^{\beta\iota'}_{\nu}\cdots\Lambda^{\zeta\iota'}_{\rho}\Lambda_{\theta\iota'}^{\sigma}\Lambda_{\nu}^v\cdots\Lambda_{\kappa\iota'}^{\zeta}T_{\sigma\nu\cdots\zeta}^{\mu\iota\nu\iota'\cdots\rho}, \quad (3)$$

Matrices Eqn.4

$$F^{\mu\nu} = \begin{bmatrix} 0 & \frac{1}{c}E_x & \frac{1}{c}E_y & \frac{1}{c}E_z \\ \frac{1}{c}E_x & 0 & -B_z & B_y \\ \frac{1}{c}E_y & B_z & 0 & -B_x \\ \frac{1}{c}E_z & -B_y & B_x & 0 \end{bmatrix} \quad (4)$$

run plot of the following equation w/ lorenz.py Eqn.5

$$\frac{dx}{dt} = \sigma(y - x), \frac{dy}{dt} = x(\rho - z) - y, \frac{dz}{dt} = xy - \beta z. \quad (5)$$

$$E_0 = mc^2 \quad (6)$$

$$E = \frac{mc^2}{\sqrt{1 - \frac{v^2}{c^2}}} \quad (7)$$

Integration Eqn.8

$$\int_0^n x^2 dx \quad (8)$$

Limits Eqn.9

$$\lim_{x \rightarrow 2} x^2 + 2 \tag{9}$$

Summation Eqn.10

$$\sum_{x=1}^n x^2 = 1 \tag{10}$$

Product Sequence Eqn.11

$$\prod_{x=1}^n x^2 = 1 \tag{11}$$