$$\iiint_{V} f(x,y,z) dV = F$$

$$\frac{dx}{dy} = x' = \lim_{h \to 0} \frac{f(x+h) - f(x)}{h}$$

$$|x| = \begin{cases} -x, & \text{if } x < 0 \\ x, & \text{if } x \ge 0 \end{cases}$$

$$F(x) = A_0 + \sum_{n=1}^{N} \left[A_n \cos \left(\frac{2\pi nx}{P} \right) + B_n \sin \left(\frac{2\pi nx}{P} \right) \right]$$

$$\sum_{n} \frac{1}{n^s} = \prod_{p} \frac{1}{1 - \frac{1}{p^s}}$$

$$m\ddot{x} + c\dot{x} + kx = F_0 \sin(2\pi ft)$$

$$f(x) = x^2 + 3x + 5x^2 + 8 + 6x$$

$$= 6x^2 + 9x + 8$$

$$= x(6x + 9) + 8$$

$$X = \frac{F_0}{k} \frac{1}{\sqrt{(1 - r^2)^2 + (2\zeta r)^2}}$$

$$G_{\mu\nu} \equiv R_{\mu\nu} - \frac{1}{2}Rg_{\mu\nu} = \frac{8\pi G}{c^4}T_{\mu\nu}$$

$$6CO_2 + 6H_2O \to C_6H_{12}O_6 + 6O_2$$

$$SO_4^{2-} + Ba^{2+} \to BaSO_4$$

$$\begin{pmatrix} a_{11} & a_{12} & \dots & a_{1n} \\ a_{21} & a_{22} & \dots & a_{2n} \\ \vdots & \vdots & \ddots & \vdots \\ a_{n1} & a_{n2} & \dots & a_{nn} \end{pmatrix} \begin{pmatrix} v_1 \\ v_2 \\ \vdots \\ v_n \end{pmatrix} = \begin{pmatrix} w_1 \\ w_2 \\ \vdots \\ w_n \end{pmatrix}$$

$$\frac{\partial \mathbf{u}}{\partial t} + (\mathbf{u} \cdot \nabla)\mathbf{u} - \nu \nabla^2(\mathbf{u}) = -\nabla \mathbf{h}$$

$$\alpha A\beta B\gamma \Gamma \delta \Delta \pi \Pi \omega \Omega$$