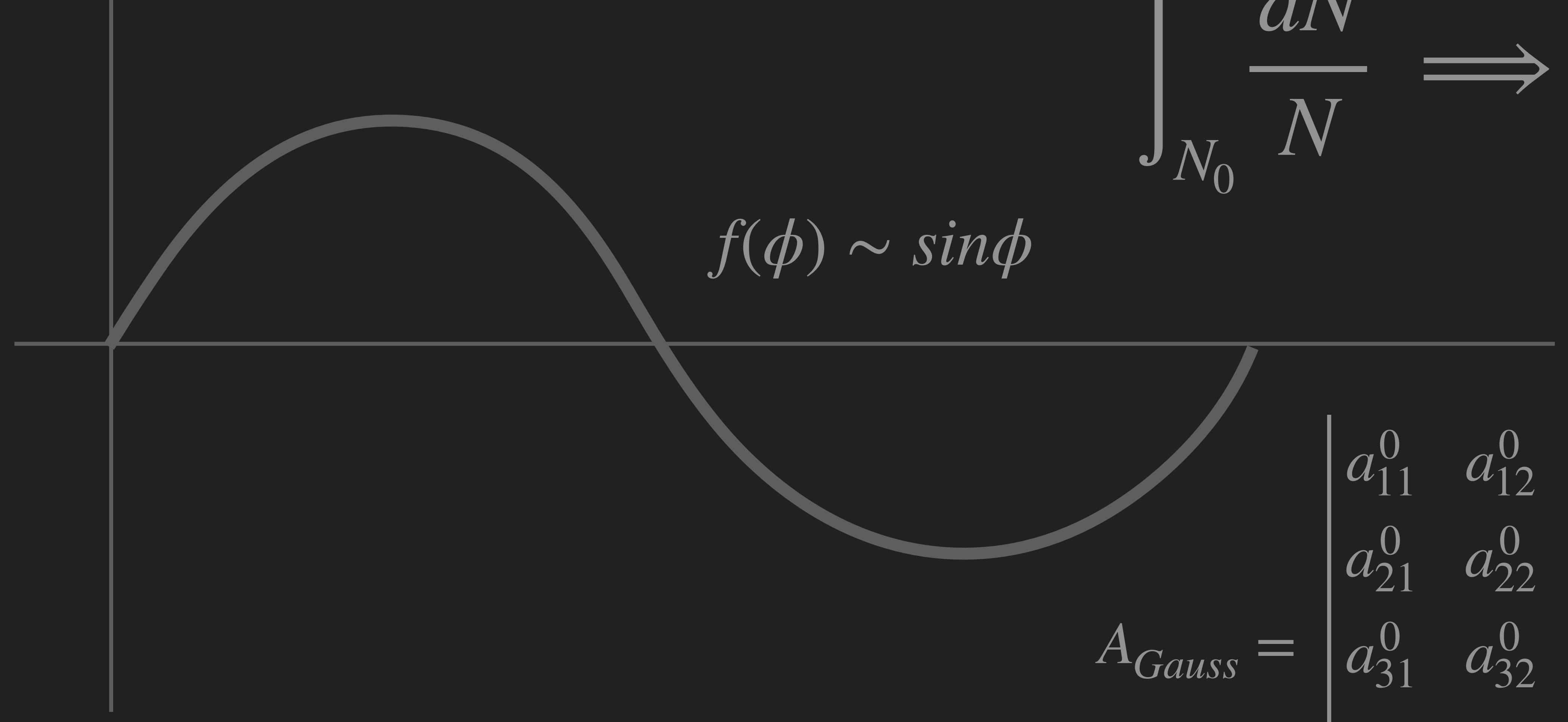
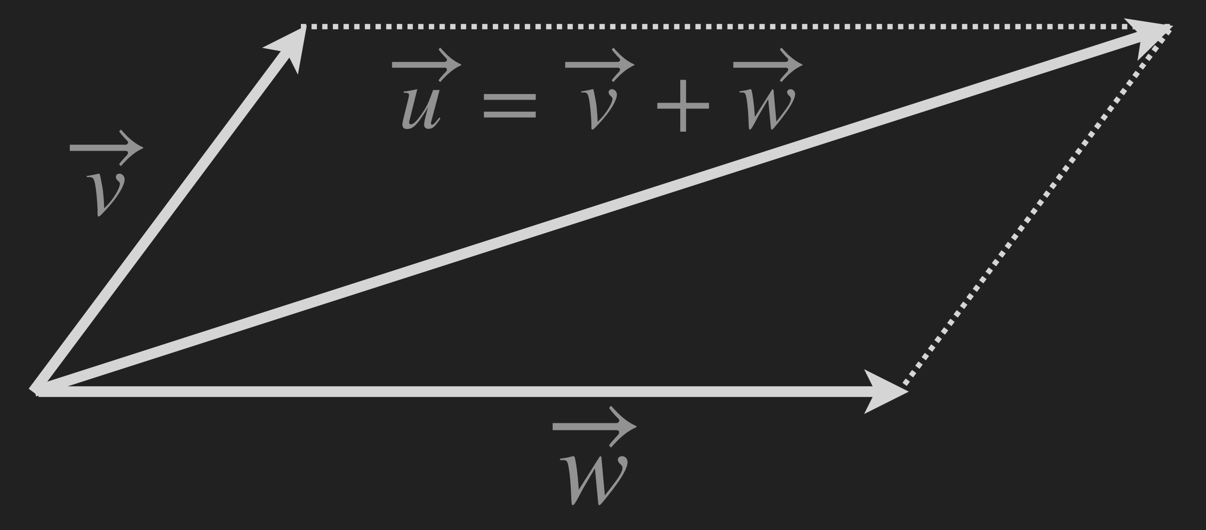
$$sin^2\phi + cos^2\phi = 1$$



$$\int_{N_0}^{N} \frac{dN}{N} \implies ln\frac{N}{N_0} = -kt$$

$$E = E^\circ - \frac{0.0591}{n} \cdot log\left(\frac{C_{prod}}{C_{react}}\right)$$

$$f(t) = \frac{\beta}{\eta^\beta} t^{\beta-1} e^{-\left(\frac{t}{n}\right)^\beta}$$



$$CLT_{MCMC} \sim \overline{\omega_n} = \sum_{i=1}^{n} \frac{W \cdot X_i}{n}$$

$$A_{Gauss} = \left|\begin{array}{ccccc|c} a_{11}^0 & a_{12}^0 & \cdots & a_{1n}^0 & | & b_1^0 \\ a_{21}^0 & a_{22}^0 & \cdots & a_{2n}^0 & | & b_2^0 \\ a_{31}^0 & a_{32}^0 & \cdots & a_{3n}^0 & | & b_3^0 \\ \vdots & \vdots & \ddots & \vdots & | & \vdots \\ a_{n1}^0 & a_{n2}^0 & \cdots & a_{nn}^0 & | & b_n^0 \end{array}\right|$$

$$\Delta\phi = \nabla^2\phi \ \to \ \nabla \cdot \nabla\phi \ \therefore \ div(grad\ \phi)$$

$$N \sim \frac{1}{\sigma\sqrt{2\pi}} e^{-\frac{1}{2}} \cdot \left(\frac{\bar{x} - \mu}{\sigma}\right)^2$$

$$x \to f(a_1 + c_1x,\ a_2 + c_2x,\ \dots,\ a_n + c_nx)$$

$$lm \longrightarrow \hat{y} \sim \beta_0 + \beta_1x_1 + \cdots + \beta_nx_n + \varepsilon_i$$

$$\forall \cdot \infty \implies love$$

$$f(t) = \mathscr{L}^{-1} \cdot F(s)$$

$$h(t) = \lim_{\Delta t \to 0}\left(\frac{P\ (t < \mathscr{T} \le t + \Delta t)}{S(t) \cdot \Delta t}\right)$$

$$\frac{\partial(\rho e)}{\partial t} + \vec{\nabla} \cdot ((\rho e + p)\vec{u}) = \vec{\nabla} \cdot (\bar{\bar{\tau}} \cdot \vec{u}) + \rho\vec{f}\vec{u} + \vec{\nabla} \cdot (\vec{\dot{q}}) + r$$

$$p = kT\frac{\partial ln(Z)}{\partial V} \sim pV = nRT$$

$$P(A\,|\,B) = \frac{P(B\,|\,A) \times P(A)}{P(B)}$$

$$i\hbar\frac{\partial\Psi}{\partial t} = -\frac{\hbar^2}{2m}\frac{\partial^2\Psi}{\partial x^2} + V\Psi$$

$$\pi \approx \frac{(a_{n+1} + b_{n+1})^2}{4t_{n+1}} \ \Big| \ a_0 = 1,\ b_0 = \frac{1}{\sqrt{2}},\ t_0 = \frac{1}{4},\ p_0 = 1$$

$$\Phi_B = \iint_{\Sigma(t)} \mathbf{B}(t) \cdot d\mathbf{A} \implies \nabla \times \mathbf{E} = -\frac{\partial \mathbf{B}}{\partial t}$$

$$e^{\theta i} = cos\ \theta - i \cdot \sin\theta$$