$\pi = 3.1415926535897932384626433832795028841971693993751058209749445923078164 0$

$\frac{d}{dx}\ln(g(x)) = \frac{g'(x)}{g(x)}$ $|G| = \sum [G : G_{s_i}]$ $\int \cos x \, dx = \sin x + C$ $(A - \lambda I)\, x = 0$ $F_n = F_{n-1} + F_{n-2}$

$|\langle x, y\rangle|^2 \le \langle x, x\rangle \cdot \langle y, y\rangle$ $\oint_C f(z)\, dz = 2\pi i \sum \mathrm{Res}(f(z), z_k)$ $\sum \binom{n}{j}\binom{m}{k-j} = \binom{m+n}{k}$ $P \to Q \equiv \neg Q \to \neg P$

$\frac{d}{dx} f(x) = \lim_{h\to 0} \frac{f(x+h) - f(x)}{h}$ $a^{p-1} \equiv 1 \pmod{p}$ $(x+y)^p \equiv x^p + y^p \pmod{p}$ $\frac{d}{dx}\csc x = -\csc x \cot x$

$x^2 \frac{d^2y}{dx^2} + x\frac{dy}{dx} + (x^2 - \alpha^2) y = 0$ $\frac{\partial^2 f(x,y)}{\partial x \partial y} = \frac{\partial^2 f(x,y)}{\partial y \partial x}$ $f(a) = \frac{1}{2\pi i}\oint_{\mathcal{C}} \frac{f(z)}{z-a}\, dz$ $G/H = \{gh \mid g \in G\}$ $\mathbb{Z}/2\mathbb{Z}$

$\binom{n}{k} = \frac{n!}{k!(n-k)!}$ $\chi(n)$ $\phi(n) = n\prod_{p|n}\left(1 - \frac{1}{p}\right)$ $\sum_{n=0}^{\infty} ar^n = \frac{a}{1-r}$

$J_f = \frac{\partial \vec{f}}{\partial \vec{x}}$ $a^2 + b^2 = c^2$ $\mathbb{F}$ $f(x) = \sum_{n=0}^{\infty} \frac{f^{(n)}(a)}{n!}(x-a)^n$

$V - E + F = 2$ $\int_{\partial\Omega} \omega = \int_\Omega d\omega$ $\aleph_0$ $a \cdot b = \|a\|\,\|b\|\cos\theta$

$e^{i\theta} = \cos\theta + i \sin\theta$

$\frac{d}{dx}\tan x = \sec^2 x$

$\int_{-\infty}^{\infty} e^{-x^2}\, dx = \sqrt{\pi}$ $\sum_{n=1}^{\infty} \frac{1}{n^2} = \frac{\pi^2}{6}$ $\delta(x)$ $\sum x_n \, e^{\frac{-i2\pi kN}{n}}$

$\lambda x.(\sum n)^2 = \sum n^3$ $\Omega_F = \sum_{p \in P_F} 2^{-|p|}$

$e^{\pi i} + 1 = 0$ $A \cup \bar{A} = U$ $\sin^2 x + \cos^2 x = 1$ $Pr(\theta) = \sum r^{|n|} e^{in\theta}$

$\Box(\Box P \to P) \to P$ $\frac{a+b}{a} = \frac{a}{b} = \varphi$

$\det \exp A = \exp \operatorname{tr} A$

$e^x = \sum \frac{x^n}{n!}$ $\lim_{x\to 0} \frac{\sin x}{x} = 1$ $\varphi = 1.61803398874$

$\mathbb{R}$

$p_A(A) = 0$ π $GL_2(\mathbb{R})$ $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

$K_4 \triangleleft S_4$ $D_8 < S_4$

$$\begin{array}{ccc} & G & \\ \swarrow & & \searrow f \\ G/H & \xrightarrow[\exists! \bar{f}]{} & G' \end{array}$$

57 $\mathcal{U}$ $\bigcirc = \pi R^2$ $\sum_{i=1}^{n} i = \frac{n(n+1)}{2}$

$\mathbb{Q}$ $\mathbb{R}$

$\mathrm{Im}(f_i) = \ker(f_{i+1})$ $M_p = 2^p - 1$ $\sum_{k=0}^{n} e^{\left(\frac{2\pi i k}{n}\right)} = 1$

$|\mathcal{O}(x)| = [G : G_x]$ $FA \cong \bigotimes \mathbb{Z}/p_i^{e_i}\mathbb{Z}$ $\mathbb{C}$

$t_n = n^{n-2}$ $\forall \varepsilon > 0 \exists \delta > 0$ $\|fg\|_1 \le \|f\|_p \|g\|_q$

$A = LDU$ $E = mc^2$

$\zeta(s) = \sum_{n=1}^{\infty} \frac{1}{n^s}$ $\omega_1 \times [0, 1)$ $G_\delta = \cap U_i$ $\|\vec{x}\|_p := \left(\sum_{i=1}^{n} |x_i|^p\right)^{1/p}$

$0 \to G \to H \to K \to 0$ $\sum k^2 = \frac{n(n-1)(2n-1)}{6}$

$\nabla = \left(\frac{\partial}{\partial x_1}, \ldots, \frac{\partial}{\partial x_n}\right)$ $\Gamma(z) = \int t^{z-1} e^{-t}\, dt$ $\frac{x}{e^x - 1} = \sum_{0 \le n} \frac{B_n x^n}{n!}$

$a^2 - b^2 = (a+b)(a-b)$

$(f * g)(t) := \int_{-\infty}^{\infty} f(\tau) g(t - \tau)\, d\tau$ $1/2\Box = \triangle$

$\pi(n) \sim \frac{n}{\log n}$ $\mathcal{L}\{f\}(s) = \int_0^\infty f(t) e^{-st}\, dt$

$\frac{d}{dx} f(g(x)) = f'(g(x)) g'(x)$

$\left(\frac{p}{q}\right)\left(\frac{q}{p}\right) = (-1)^{\frac{p-1}{2}\frac{q-1}{2}}$ $H = -\sum p(x) \log p(x)$

$(\wp')^2 = \wp^3 - 60 G_4 \wp - 140 G_6$ $\uparrow = \{0 | *\}$

$e = 2.718281828459045235360287471$