$\pi = 3.14159265358979323846264338327950288419716939937510582097494459230781640$

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

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

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

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

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

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

$\int_{\partial\Omega} \omega = \int_{\Omega} d\omega$ $\aleph_0$

$V - E + F = 2$ $a \cdot b = \|a\|\,\|b\|\cos\theta$

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

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

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

$\lambda x.(\sum n)^2 = \sum n^3$

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

$e^{\pi i} + 1 = 0$ $A \cup \overline{A} = U$

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

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

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

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

$$\begin{tikzcd} & G \arrow[dl] \arrow[dr, "f"] & \\ G/H \arrow[rr, "\exists!\bar{f}"'] & & G' \end{tikzcd}$$

$K_4 \triangleleft S_4$ $D_8 < S_4$ $\sum_{i=1}^{n} i = \frac{n(n+1)}{2}$

57 $\mathcal{U}$ $\bigcirc = \pi R^2$ $\mathbb{Q}$

$\operatorname{Im}(f_i) = \ker(f_{i+1})$ $M_p = 2^p - 1$ $\mathbb{R}$

$|\mathcal{O}(x)| = [G : G_x]$ $FA \cong \bigotimes \mathbb{Z}/p_i^{e_i}\mathbb{Z}$ $\sum_{k=0}^{n} e^{\left(\frac{2\pi i k}{n}\right)} = 1$

$t_n = n^{n-2}$ $\forall \varepsilon > 0 \exists \delta > 0$ $\mathbb{C}$

$A = LDU$ $E = mc^2$ $\|fg\|_1 \le \|f\|_p \|g\|_q$

$\zeta(s) = \sum_{n=1}^{\infty} \frac{1}{n^s}$ $\omega_1 \times [0, 1)$

$0 \to G \to H \to K \to 0$ $\|\vec{x}\|_p := \left(\sum_{i=1}^{n} |x_i|^p\right)^{1/p}$

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

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

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

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

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

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

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

$e = 2.718281828459045235360287471$