$\pi = 3.14159265358979323846264338327950288419716939937510582097494459230781640$

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

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

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

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

$\binom{n}{k} = \frac{n!}{k!(n-k)!}$ $\chi(n)$

$J_f = \frac{\partial \vec{f}}{\partial \vec{x}}$ $a^2 + b^2 = c^2$

$V - E + F = 2$

$\phi(n) = n \prod_{p|n}\left(1 - \frac{1}{p}\right)$

$\mathbb{F}$

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

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

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

$\sum_{n=0}^\infty ar^n = \frac{a}{1-r}$

$f(x) = \sum_{n=0}^{\infty} \frac{f^{(n)}(a)}{n!}(x-a)^n$

$a \cdot b = \|a\|\,\|b\|\cos\theta$

$\int_{-\infty}^\infty e^{-x^2}\,dx = \sqrt{\pi}$

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

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

$\Box(\Box P \to P) \to P$

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

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

$\mathbb{R}$

$p_A(A) = 0$ $GL_2(\mathbb{R})$

$K_4 \triangleleft S_4$ $D_8 < S_4$

57 $\mathcal{U}$ G/H $G'_{\bigcirc} = \pi R^2$

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

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

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

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

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

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

$\nabla = \left(\frac{\partial}{\partial x_1}, \ldots, \frac{\partial}{\partial x_n}\right)$ $\Gamma(z) = \int t^{z-1}e^{-t}\,dt$

$\sum_{n\geq 1} \frac{1}{n^2} = \frac{\pi^2}{6}$ $\delta(x)$

$|\mathbb{F}| = p^n$

$\phi(gh) = \phi(g)\phi(h)$

$\frac{a+b}{a} = \frac{a}{b} = \varphi$

$\varphi = 1.61803398874$

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

$\sum_{i=1}^n i = \frac{n(n+1)}{2}$

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

$\sum_{k=0}^n e^{\left(\frac{2\pi i k}{n}\right)} = 1$

$\mathbb{C}$

$\|fg\|_1 \leq \|f\|_p \|g\|_q$

$\|\vec{x}\|_p := \left(\sum |x_i|^p\right)^{1/p}$

$\frac{x}{e^x - 1} = \sum \frac{B_n x^n}{n!}$

$x^n + y^n \equiv z^n \pmod{p}$

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

$\sum x_n\, e^{\frac{-2\pi i k n}{N}}$

$\Omega_F = \sum_{p \in P_F} 2^{-|p|}$

$Pr(\theta) = \sum r^{|n|} e^{in\theta}$

$\gcd(a^{n!} - 1, N) \stackrel{?}{=} p$

$\lim_{x\to c} \frac{f(x)}{g(x)} = \lim_{x\to c} \frac{f'(x)}{g'(x)}$

$\sum n = \frac{-1}{12}$ $y = \frac{1}{x}$, π ∞

$B(x) = e^{e^x - 1}$

$\mathrm{BB}(3) = 21$

$p \iff q$

$\frac{z}{c} = \frac{x^2}{a^2} - \frac{y^2}{b^2}$

$\frac{SN}{N} \cong \frac{S}{S \cap N}$

$|x|_p = p^{-a}$

$\gcd(a,b) = ax + by$

$C_n = \frac{1}{n+1}\binom{2n}{n}$

$x \wedge y = -y \wedge x$

$n(\gamma;\zeta) = \int_\gamma \frac{dz}{z - \zeta}$

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

Γ $f'(c) = \frac{f(b) - f(a)}{b - a}$

$\operatorname{rank} T + \operatorname{nul} T = \dim V$

$\sum_{n=0}^\infty p(n)x^n = \prod_{k=1}^\infty \frac{1}{1-x^k}$

$y(x,t) = A\sin(kx - \omega t)$

$\nu = \nu^+ - \nu^-$ $\LaTeX$

$V = \pi \int |f^2(y) - g^2(y)|\,dy$

$\sin^{-1} x + \cos^{-1} x = \frac{\pi}{2}$ $\frac{1}{p} + \frac{1}{q} = 1$

$p_u(v) = \frac{u\langle v,u\rangle}{\langle u,u\rangle}$ $G \hookrightarrow S_{|G|}$

$\frac{1}{2}(a+b) \geq \sqrt{ab}$ $\sum \frac{1}{n} \to \infty$

$1 \quad 3 \quad 3 \quad 1$

$1 \quad 2 \quad 1$

$1 \quad 1$

1

$\frac{|G|}{|H|} = [G : H]$

$\sum \binom{n}{i} x^i y^{n-i}$

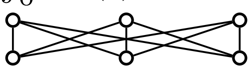
$\vec{\beta} = (X^T X)^{-1} X^T \vec{y}$

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

$196884 = 196883 + 1$

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

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

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

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

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

$e = 2.718281828459045235360287471$