

$y = f(x) \Rightarrow y = \int f(x) dx; \quad y = F(x) + C$

 $m_a = \frac{1}{2a} \sqrt{2(b^2 + c^2) - a^2}$
 $d = \left| \frac{ax_0 + by_0 + c}{\sqrt{a^2 + b^2}} \right|$

$D = b^2 - 4ac$
 $(a+b)^2 = a^2 + 2ab + b^2$
 $V = \pi R^2 h$
 $S_{\Delta} = \frac{1}{2} ab$
 $a^2 + b^2 = c^2$
 $a_n = a_1 + d(n-1)$


 $S = \frac{1}{2} d_1 d_2 \sin \varphi$
 $(uv)^n = \sum_{k=0}^n C_n^k u^{n-k} v^k$

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

$y = \varphi(x, C_1, C_2)$

 $\int_{x_0}^x P(x, y) dx + \int_{y_0}^y Q(x, y) dy = C$

$\sin^2 \alpha + \cos^2 \alpha = 1$
 $f(x + \Delta x) \approx f(x_0) + f'(x_0) \Delta x + \frac{f''(x_0)}{2!} \Delta x^2$
 $S = \pi(R^2 - r^2)$

$F_x [e^{-ax^2}] (k) = \sqrt{\frac{\pi}{a}}$
 $P_{10}(A) = 0.05$
 $\sin x = \frac{a}{c}$
 $S = (h + \frac{a+b}{2}) k$
 $\log_2 2 = 1$
 $P = -\frac{(b-a)^3}{12n^2} M$
 $M = \max_{x \in [a,b]} f''(x)$
 $L = 2\pi R$

$2r = a + b + c$
 $a^{m+n} = a^m a^n$

 $\log_{10} a = \lg a$


 $S = 4\pi R^2$
 $e^{ix} = \cos x + i \sin x$
 $d + \beta + \gamma = 180^\circ$
 $A^{-1} = \frac{1}{\Delta} \begin{vmatrix} A_{11} & A_{21} & A_{31} \\ A_{12} & A_{22} & A_{32} \\ A_{13} & A_{23} & A_{33} \end{vmatrix}$
 $\sqrt{\frac{a}{b}} = \sqrt[2]{\frac{a}{b}}$

$(a-b)(a+b) = a^2 - b^2$
 $\sin(\alpha + \beta) = \sin \alpha \cos \beta + \cos \alpha \sin \beta$
 $\int_a^b f(x) dx$


Space Mathematics

Jin-Ying Zhang



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