

(displayed equation)

Superscripts(Powers)

$$e^{i\pi} + 1 = 0$$

Subscripts

$$\mathbb{Z}_{p_1^{a_1}} \times \cdots \times \mathbb{Z}_{p_n^{a_n}}$$

Summations

$$e^x = \sum_{n=0}^{\infty} \frac{x^n}{n!}$$

Integrals

$$L(f, a, b) = \int_a^b \sqrt{1 + [f'(t)]^2} dt$$

sin, lim, log, sup

$$\sin x, \quad \lim_{n \rightarrow \infty} a_n, \quad \log_a x, \quad \sup_{x \in S} f(x)$$

Fractions, Roots

$$\frac{1}{2}, \quad \sqrt{2}, \quad \frac{x^2 + 2x + 2}{\sqrt{x^3 + 1} + \sqrt[3]{x^2}}$$

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$$\begin{aligned}
e^x &= \sum_{n=0}^{\infty} \frac{x^n}{n!} \\
\sin x &= \sum_{n=0}^{\infty} (-1)^n \frac{x^{2n+1}}{(2n+1)!} \\
\cos x &= \sum_{n=0}^{\infty} (-1)^n \frac{x^{2n}}{(2n)!}
\end{aligned} \tag{1}$$