

Hello,World

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Einstein's  $E=mc^2$ .

$$E=mc^2$$

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$$C_n^m$$

$$z=r\cdot e^{2\pi i}.$$

$$\sqrt{x},\,\tfrac{1}{2}.$$

$$\sqrt{x^2+y^2},$$

$$\frac{1}{2}.$$

$$\frac{1}{2}$$

$$\tfrac{1}{2}$$

$$\pm \times \div \cdot \cap \cup \geq \leq \neq \approx \equiv$$

$$\sum \prod \lim \int$$

$$\sum_{i=1}^n i \quad \prod_{i=1}^n \sum_{i=1}^n i \quad \prod_{i=1}^n$$

$$\lim_{x\rightarrow 0}x^2\quad \int_a^bx^2dx$$

$$\begin{pmatrix} a & b \\ c & d \end{pmatrix} \quad \begin{bmatrix} a & b \\ c & d \end{bmatrix} \quad \left\{ \begin{matrix} a & b \\ c & d \end{matrix} \right\} \quad \left| \begin{matrix} a & b \\ c & d \end{matrix} \right| \quad \left\| \begin{matrix} a & b \\ c & d \end{matrix} \right\|$$

$$d + e + f + g \quad (2)$$

$$x = a + b + c + d + e + f + g$$

$$a = b + c + d \tag{3}$$

$$x = y + z \tag{4}$$

$$a = b + c + d \tag{5}$$

$$x = y + z \tag{6}$$

$$y = \begin{cases} -x, & x \leq 0 \\ x, & x > 0 \end{cases}$$