Hello,LaTeX!

Add a squared and b squared to get c squared. Or, using a more mathematical approach:

$$c^2 = a^2 + b^2 \geq 0 \qquad \text{for all } x \in \mathbf{R} \tag{1}$$

$a_1 \qquad x^2 \qquad e^{-\alpha t} \qquad a_{ij}^3$

$e^{x^2} \neq e^{x^2} \quad \sqrt{x} \qquad \sqrt{x^2 + \sqrt{y}} \qquad \sqrt[3]{2}$

$\sqrt{[x^2 + y^2]}$

$$\frac{x^2}{k+1} \qquad x^{\frac{2}{k+1}} \qquad x^{1/2}$$

$$\binom{n}{k} \qquad \begin{matrix} x \\ y+2 \end{matrix}$$

$$\sum_{i=1}^{n} \qquad \int_0^{\frac{\pi}{2}} \qquad \prod_{\epsilon}$$

你好，LaTeX!