

Sample math symbols

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Chapter 1

Single equations

Add a squared and b squared to get c squared. Or, using the more mathematical approach: $a^2 + b^2 = c^2$

T_EX is pronounced as $\tau\epsilon\chi$

100 m³ of water

This comes from my *heartsuit*

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

$$a^2 + b^2 = c^2 \tag{1.1}$$

Einstein says

$$E = mc^2 \tag{1.2}$$

He didn't say

$$1 + 1 = 3 \tag{bollocks}$$

This is a reference to (1.2).

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

$$a^2 + b^2 = c^2$$

or you can type less for the same effect

$$a^2 + b^2 = c^2$$

This is text style: $\lim_{n \rightarrow \infty} \sum_{k=1}^n \frac{1}{k^2} = \frac{\pi^2}{6}$. And this is the display style:

$$\lim_{n \rightarrow \infty} \sum_{k=1}^n \frac{1}{k^2} = \frac{\pi^2}{6} \tag{1.3}$$

A d_{ep} mathematical expression followed by a h_{ig_h} expression. As opposed to a smashed d_{ep} expression followed by a h_{ig_h} expression.

$$\begin{aligned} \forall x \in \mathbf{R} : \quad & x^2 \geq 0 \\ x^2 \geq 0 \quad & \text{for all } x \in \mathbf{R} \end{aligned}$$

$$\begin{array}{l}
x^2 \geq 0 \qquad \text{for all } x \in \mathbb{R} \\
\boxed{p_{ij}^3 \qquad m_{\text{Knuth}} \qquad \sum_{k=1}^n k} \\
\boxed{a^x + y \neq a^{x+y} \qquad e^{x^2} \neq e^{x2}} \\
\sqrt{2} \Leftrightarrow x^{1/2} \quad \sqrt[3]{2} \quad \sqrt{x^2 + \sqrt{y}} \quad \sqrt{x^2 + y^2} \\
\Psi = v_1 \cdot v_2 \cdot \ldots \qquad n! = 1 \cdot 2 \cdots (n-1) \cdot n \\
0.\overline{3} = 1/\overline{\overline{3}} \\
\boxed{\overbrace{a+b+c}^6 \cdot \overbrace{d+e+f}^9 = 54} \\
\text{Advanced Calculus} \\
f(x) = x^2 \quad f'(x) = 2x \quad f''(x) = 2 \\
\hat{XY} \quad \widehat{XY} \quad \bar{x}_0 \quad \bar{\bar{x}}_0
\end{array}$$