Sample math symbols

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Contents

Chapter 1

Single equations

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

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

100 m^3 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

$$1 + 1 = 3 \qquad \text{(bollocks)}$$

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

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

A $d_{e_{e_p}}$ mathematical expression followed by a $h_{i_{g_h}}$ expression. As opposed to a smashed $d_{e_{e_p}}$ expression followed by a $h_{i_{g_h}}$ expression.

$\forall x \in \mathbf{R}: \qquad x^2 \geq 0$

$x^2 \geq 0 \qquad$ for all $x \in \mathbf{R}$

$x^2 \geq 0 \qquad \text{for all } x \in \mathbb{R}$

p_{ij}^3	m_{Knuth}	$\sum_{k=1}^{n} k$
$\mathrm{a}^x + y \neq a^{x+y}$		$e^{x^2} \neq e^{x2}$

$\sqrt{2} \Leftrightarrow x^{1/2} \quad \sqrt[3]{2} \quad \sqrt{x^2 + \sqrt{y}} \quad \sqrt{x^2 + y^2}$

$\Psi = v_1 \cdot v_2 \cdot \ldots \qquad n! = 1 \cdot 2 \cdots (n-1) \cdot n$

$0.\overline{3} = \underline{\underline{1/3}}$

$$\underbrace{\overbrace{a+b+c}^{6} \cdot \overbrace{d+e+f}^{9}}_{\text{Advanced Calculus}} = 54$$