

Simple example

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1 Hello

This is a simple example using the \LaTeX library and some math stuff.

$$4^{(2^3)^2} - 10000 \cdot 10000 \cdot (10000 \cdot 10000) \cdot (10000 \cdot 10000 \cdot 10000)$$

is 340282366910938463463374607431768211456.

For $x = 19$ and $\tau = 2 \cdot \pi$,

$$2 + 7 \cdot (6 - \tau) - e^{5 - \sqrt{x^2 + \frac{4}{\pi}}}$$

is approximately $1.7702 \cdot 10^{-2}$.

$$\sum_{n \in \{1, 2, 3, 4\}} \frac{5}{2} - n = 0$$

$$\sum_{n=1}^4 \frac{5}{2} - n = 0$$

$$\sum_{j=1}^{40} \cos\left(\frac{2 \cdot \pi}{40} \cdot j\right) \approx -2.6645 \cdot 10^{-15}$$

$$\arcsin(\sin(\arccos(\cos(\arctan(\tan 0)))))$$

is 0,

$$\operatorname{arcsinh}\left(\sinh\left(\operatorname{arccosh}\left(\frac{\cosh(\operatorname{arctanh}(\tanh 0))}{2}\right)\right)\right)$$

is not.(Test passed.)

A simple equations chain:

$$\begin{aligned} 10^{18} &= 10^9 \cdot 10^9 \\ &= 10^{3^2} \cdot 10^5 \cdot 10^4 \\ &= 1000000000000000000 \end{aligned}$$

(Test passed.)

Another equations chain, this time using floats:

$$\begin{aligned}10^{-18} &= 10^{-9} \cdot 10^{-9} \\&= 10^{-(3^2)} \cdot 10^{-5} \cdot 10^{-4} \\&= \frac{1}{1000000000000000000}\end{aligned}$$

(Test failed.)