Simple example

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1 Hello

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

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

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

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

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

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

$$2 \cdot \sum_{i=1}^{6} i^2 + i = 224$$

$$\left(\sum_{i=1}^{6} i^2 + i\right) \cdot 2 = 224$$

$$\left(\sum_{i=1}^{6} i^2 + i\right) + 2 = 114$$

$$\sum_{i=1}^{6} i^2 + i + 2 = 124$$

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

is 0,

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

is not.(Test passed.)

A simple equations chain:

$$10^{18} = 10^9 \cdot 10^9$$

$$= 10^{3^2} \cdot 10^5 \cdot 10^4$$

$$= 10000000000000000000000$$

(Test passed.)

Another equations chain, this time using floats:

(Test failed.)