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

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

is 0.0.

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

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:

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

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

$$= 1000000000000000000000$$

(Test passed.)

Another equations chain, this time using floats:

reads, as evaluated expressions,

$$1 \cdot 10^{-18} = 1 \cdot 10^{-18}$$
$$= 1 \cdot 10^{-18}$$
$$= 1 \cdot 10^{-18}$$

(Test passed.)