

First testing some inline $\sqrt{34}$ math
 Next for an environment using a snippet: $\sqrt[3]{8} = 2$
 Time for some fractions using $\frac{2^3}{x_a^2}x_2^a$
 How do symbols look in math env vs not math env?
 No math: (creates an error)
 Math: $\emptyset \infty \equiv \setminus \cdot \times \langle \rangle \hbar \dagger \nabla \Downarrow \rightarrow \Rightarrow \epsilon \varepsilon \varpi$
 Practicing a numbered equation:

$$5! = 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1 \tag{1}$$

$$\text{something} \cdot 8$$

1 Something new

$$a, b, c, \cdots, z \tag{2}$$

2 Another section

$$1, 2, 3 \ldots \infty \tag{3}$$

Time to try aligned equations:

$$\begin{array}{r} 1234 = 1234 \\ 234 = 2342 \\ 11111111 = 23422 \end{array}$$