

Using AMS L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub> we can write myriad mathematical formulae and equations easily

$$z-x\int y\;dx=\left(\frac{\lfloor x\rfloor+y}{x-\lceil y\rceil}\right)+\sum_{i=0}^n Flow_i\tag{1}$$

$$=\vartheta-\prod_{j=1}^x Trace_j\tag{2}$$

$$\sum_{\substack{0\leq i\leq n\\0\leq j\leq i}}P_{ij}=?$$

$$\text{The base of natural logarithm, } e=2+\frac{1}{1+\frac{1}{2+\frac{1}{1+\ldots}}}$$

$$\begin{aligned}\frac{d}{dx}(x\ln x-x)&=\ln x\\ \int \ln x\,dx&=x\ln x-x\\ \int_{-1}^3 x^3\,dx&=-20\end{aligned}$$

We can also use geometric symbols. For example, in a rectangle ABCD,

$$\angle ABC = \angle BCD = \angle ADC = \angle BAD = 90^\circ$$

Moreover, the sides, AB||CD and AD||BC and AB⊥BC.