

This is a pdf created using L<sup>A</sup>T<sub>E</sub>X.

In L<sup>A</sup>T<sub>E</sub>X you can type in **boldface** or *italics*.

1. You can
2. make lists
- c. using the enumerate or itemize environments.

But the thing that L<sup>A</sup>T<sub>E</sub>X does best is type-setting mathematics. You can create in-line mathematical formulae like  $\phi(x) = \sqrt{x^2 + 3x + 7}$ .

Or you can highlight a mathematical formula by displaying it as follows:

$$\sum_{i=1}^n i = \frac{n(n+1)}{2}.$$

If you want to create a series of equations using “align” or “eqnarray”:

$$\begin{aligned} \int_0^{2\pi} \sin(x) dx &= -\cos(2\pi) + \cos(0) \\ &= -1 + 1 \\ &= 0. \end{aligned}$$

You can use “cases” to create a piecewise function:

$$f(x) = \begin{cases} x^2 & x > 2 \\ x + 1 & x \leq 2 \end{cases}.$$