

## Existing functions

L<sup>A</sup>T<sub>E</sub>X comes with a lot of built-in mathematical functions, such as  $\cos x$ ,  $\ln x$  or  $\max x$ . A complete list of symbols can be found in the *The Comprehensive L<sup>A</sup>T<sub>E</sub>X Symbol List* hosted in the *Best Practices* part of this repository (<https://github.com/ZenLulz/LatexCompendium/blob/master/best-practices/the-comprehensive-latex-symbol-list.pdf>).

## Custom functions

### The command *operatorname*

The following formula uses a custom function called *abc*.

$$\operatorname{abc} x$$

### The command *DeclareMathOperator*

This command enables to define math functions or operators in the preamble so they can be reused everywhere.

$$\operatorname{abc} x$$

### The command *mathrm*

Many people use the command *mathrm*, nevertheless this leads to space issue, as illustrated below.

$$\operatorname{abc} x$$