Simple LaTeX

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1 Symbols

- **Escape character:** \esc prints \
- **Implies:** \imp prints $\Rightarrow$
- **Degrees:** \degree prints $^\circ$
- **Proportional:** \proportional prints $\propto$ with appropriate gap
- **Number sets:** \complex, \reals, \rationals, \integers, \naturals prints $\mathbb{C}$, $\mathbb{R}$, $\mathbb{Q}$, $\mathbb{Z}$, and $\mathbb{N}$ respectively, with appropriate gap

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2 Numbers

- **General number:** \num {$num1$} {$num2$} prints $num1 \times 10^{num2}$
- **Power of ten:** \ten {$power$} prints 10^{power}
- **Reporting a figure:** \report {$num1$} {$error$} {$num2$} prints $(num1 \pm error) \times 10^{num2}$

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3 Containers

- **Absolute value:** \abs {num} prints $|num|$
- **Floor:** \floor {num} prints $\lfloor num \rfloor$
- **Ceiling:** \ceil {num} prints $\lceil num \rceil$
- **Brace brackets:** \braces {num} prints $\{num\}$
- **Angular brackets:** \angles {num} prints $\langle num \rangle$
- **Big brackets:** \bigbrac {num} inside $$ $$ prints brackets of appropriate size

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4 Fractions

- **Reciprocal:** \reci {num} prints $\frac{1}{num}$
- **Big fraction:** \bigfrac {$num1$} {$num2$} prints a fraction inside brackets of appropriate size

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5 Presentation

- **Superscript:** num1 \super {$num2$} prints num1^{num2}
- **Subscript:** num1 \sub {$num2$} prints num1$_{num2}$
- **Expression evaluated at a constant value:** \atconstant {exp} {$constant$} prints $(exp)_{constant}$ with brackets of appropriate size
- **Sequence:** \seq {x} {n} prints $x_1, x_2, x_3, \ldots x_n$
- **Numbering an equation:** \numeq {2} prints ... (2)

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6 Iterations

- **Summation:** \summation {x} {$x = 1$} {n} prints $\sum_{x=1}^{n} x$
- **Product:** \product {x} {$x = 1$} {n} prints $\prod_{x=1}^{n} x$
- **Union:** \union {A_x} {$x = 1$} {n} prints $\cup_{x=1}^{n} A_x$
- **Intersection:** \intersection {A_x} {$x = 1$} {n} prints $\cap_{x=1}^{n} A_x$
