Syntax for specification

Where

- \bullet LParen and RParen are a pair of any brackets (parenthesis, square brackets or curly braces). However, they must come in pairs.
- $\bullet~\mathbb{N}$ is any natural number characters, including superscripts and subscripts.
- ullet Binop are the 4 arithmetic operations and power ullet
- Uniop are $\sqrt{\ }$, and trigonometric functions (\sin,\cos,\tan) and their inverses

For example, these are all valid syntax:

- $1/\sqrt{2}$ $|0\rangle + 1/sqrt(2)|1>$
- $sin(\pi) |0\rangle + cos(pi)|1\rangle$
- \bullet $^{1}/2^{8} + 1/(2^{8})$