

# TYPST MATH SYNTAX - GOPDFLIB

## SECTION 1: BASIC ARITHMETIC & SYMBOLS

Description	Math Expression
Simple addition	$a + b = c$
Greek symbols	$\alpha + \beta = \gamma$
Comparison operators	$x \neq y$
Number sets (Real)	$x \in \mathbb{R}$
Arrows	$a \rightarrow b$

## SECTION 2: SUPERSCRIPTS & SUBSCRIPTS

Description	Math Expression
Superscript ( $x^t$ )	$x^2$
Subscript ( $x_{\mathbb{E} i}$ )	$x_i$
Combined super/sub	$a_1^2 + b_2^3 = c$
Area formula	$A = \pi r^2$

## SECTION 3: FRACTIONS & ROOTS

Description	Math Expression
Simple fraction	$\frac{a}{b}$
Square root	$\sqrt{x}$
Pythagorean theorem	$c = \sqrt{a^2 + b^2}$
Quadratic formula	$x = \frac{-b}{2a}$

## SECTION 4: FUNCTIONS & DELIMITERS

Description	Math Expression
Absolute value	$ x $
Floor function	$\lfloor x \rfloor$
Ceiling function	$\lceil x \rceil$

Binomial coefficient	$\binom{n}{k}$
Vector	$[a \ b \ c]$
<b>SECTION 5: COMBINED EXPRESSIONS</b>	
Description	Math Expression
Euler's identity	$e^{(i\pi)} + 1 = 0$
Energy-mass equiv.	$E = mc^2$
Norm of a vector	$\ \mathbf{a}\ $
Sum notation	$\sum_{i=1}^n i$