Mathematic Symbols

listenzcc

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1 **Basic Features**

Basic features of formulas, e.g. How to place formulas properly.

Inline formulas example Words before B(a, b) words after.

Newline formulas example Newline formulas example. Words before

B(a,b)

words after.

$\mathbf{2}$ Operators

Basic operators and symbols.

Examples Quad: A B. Power: $e^{-b \times c}$.

Sqrt: $\sqrt{b \times c} \times d$. Frac: $\frac{a}{b+c}$. Others: $+, -, \times, \div, \pm, \mp$.

 $\cup, \cap, \sqcup, \sqcap, \uplus$.

 $\cdot,\star,*,\circ,\bullet,\diamond.$

 $\oplus,\odot,\ominus,\oslash,\bigcirc,\otimes,\triangle,\bigtriangledown,\lhd,\rhd.$

 $\vee, \wedge, \coprod, \dagger, \ddagger, \wr$.

Set Operators 3

Set operators.

Examples Forall: $\forall a$.

Exists: $\exists a$. In: $a \in A$. NotIn: $A \notin B$. Union: $\bigcup A$. Inter: $\bigcap A$. Minus: $A \setminus B$. Empty: \emptyset .

Differential and Integral Calculus 4

Calculus of Differential and integral.

Examples Sum: $\sum_{i=1}^{\infty}$.

Prod: $\prod_{i=1}^{\infty} .$ Integral: $\int_{x=0}^{\infty} f(x) dx.$ Circular integral: $\oint_{s} f(s) ds$

Partial: $\frac{\partial}{\partial x} f$.

5 Notions

Special notions.

Examples Underbrace: $\underbrace{A+B+C+\cdots+Z}_{26}$.

Overbrace: $\underbrace{A+B+C+\cdots+Z}_{26}$.

Leftarrow: $\underbrace{top}_{bottom}$.

Rightarrow: $\underbrace{top}_{bottom}$.

Tops: $\vec{a}, \hat{a}, \hat{a}, \hat{a}, \dot{a}, \ddot{a}, \ddot{a}, \ddot{a}, \tilde{a}$, $\underbrace{a}, \tilde{a}, \tilde{a}$.

Laplace: ∇a

Laplace: ∇a Dots: \dot{a}, \ddot{a} Tail: a'

6 Greek letters

Greek letters

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 \begin{array}{ll} \textbf{Lowercase letters} & alpha-\alpha, beta-\beta, gamma-\gamma, delta-\delta, epsilon-\epsilon \\ & varepsilon-\epsilon, zeta-\zeta, eta-\eta, theta-\theta, vartheta-\vartheta \\ & iota-\iota, kappa-\kappa, lambda-\lambda, mu-\mu, nu-\nu \\ & xi-\xi, pi-\pi, varpi-\varpi, rho-\rho, varrho-\varrho \\ & sigma-\sigma, varsigma-\varsigma, tau-\tau, upsilon-\upsilon, phi-\phi \\ & varphi-\varphi, chi-\chi, psi-\psi, omega-\omega \end{array}
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 $\begin{array}{ll} \textbf{Uppercase letters} & Gamma - \Gamma, Delta - \Delta, Theta - \Theta, Lambda - \Lambda, Xi - \Xi, Pi - \Pi, Sigma - \Sigma, Upsilon - \Upsilon, Phi - \Phi, Psi - \Psi, Omega - \Omega \end{array}$