Mathematic Symbols

listenzcc

March 4, 2020

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: $\frac{\partial}{\partial s} f$

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

6 Greek letters

Greek letters

```
 \begin{array}{l} \textbf{Lowercase letters} \quad 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}
```

 $\begin{array}{ll} \textbf{Uppercase letters} & Gamma - \Gamma, Delta - \Delta, Theta - \Theta, Lambda - \Lambda, Xi - \Xi, Pi - \Pi, Sigma - \Sigma, Upsilon - \Upsilon, Phi - \Phi, Psi - \Psi, Omega - \Omega \end{array}$