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Greek Letters η and μ
 Fraction $\frac{a}{b}$
 Power a^b
 Subscript a_b
 Derivate $\frac{\partial y}{\partial t}$
 Vector \vec{n}
 Bold **n**
 To time differential \dot{F}
 Matrix (lcr here means left, center or right for each column)

$$\left[\begin{array}{ccc} a1 & b22 & c333 \\ d444 & e5555555 & f6 \end{array} \right]$$

Equations(here & is the symbol for aligning different rows)

$$a + b = c \tag{1}$$

$$d = e + f + g \tag{2}$$

$$\begin{cases} a + b = c \\ d = e + f + g \end{cases}$$

$$\int_a^b f(x)dx$$

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$$\sum_{i=1}^{\infty} x_i$$

$$\lim_{x \rightarrow x_0} f(x) = A$$

$$\sum_{i,j,k=1}^{\infty} x_{i_{j_k}}$$

$$\prod_{i,j,k=1}^{\infty} x_{i_{j_k}}$$

$$\Gamma^k_{ij}=\frac{1}{2}(\frac{\partial g_{il}}{\partial u^j}+\frac{\partial g_{jl}}{\partial u^i}-\frac{\partial g_{ij}}{\partial u^l})$$

$$\sqrt[3]{x^4-3x+1}$$

$$\iint_{\Omega} f(x,y) dx dy$$

$$\iiint\limits_{\Omega} f(x,y,z,u) dx dy dz du$$

$$\left\{ \begin{array}{ccc} 1 & 6 & 9 \\ 7 & 90 & f(x) \\ 9 & \psi(x) & g(x) \end{array} \right\}$$

$$\left\{\begin{array}{ll} u_{tt}(x,t)=b(t)\triangle u(x,t-4)\\ \qquad \qquad \qquad -q(x,t)f[u(x,t-3)]+te^{-t}\sin^2x, & t\neq t_k;\\ u(x,t_k^+)-u(x,t_k^-)=c_ku(x,t_k), & k=1,2,3\dots;\\ u_t(x,t_k^+)-u_t(x,t_k^-)=c_ku_t(x,t_k), & k=1,2,3\dots\end{array}\right.$$

$$q(x,t)=\begin{cases} (t-k+1)x^2, & t\in (k-1,k-\frac{1}{2}],\\ (k-t)x^2, & t\in (k-\frac{1}{2},k], \end{cases}$$

$$a\leq b,b\geq c$$

lable 1-1	label 1-2	label 1-3	label 1 -4	label 1-5
label 2-1	label 2-2	label 3-3	label 4-4	label 5-5
Multi-Row	Multi-Column		Multi-Row and Col	
	column-1	column-2		

Table 1: My first table