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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 $\mathbf{n}$
To time differential $\dot{F}$
Matrix (lcr here means left, center or right for each column)

$$\begin{bmatrix} a1 & b22 & c333 \\ d444 & e555555 & f6 \end{bmatrix}$$

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

$$a + b = c \tag{1}$$
$$d = e + f + g \tag{2}$$

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

$$\begin{aligned} E(S^2) &= E\left(\frac{1}{n}1n(X_i - \bar{X})^2\right) \\ &= E\left(\frac{1}{n}1nX_i^2\right) - E\left(\frac{1}{n}1n2\bar{X}X_i\right) + E\left(\frac{1}{n}1n\bar{X}^2\right) \\ &= EX^2 - E(\bar{X}^2) \\ &= DX + (EX)^2 - D\bar{X} - (E\bar{X})^2 \\ &= \frac{n-1}{n}DX \end{aligned}$$

$\ln X$

$E\left(\frac{1}{n}\ln(X_i - \bar{X})^2\right)$