A simple tex templates

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Contents

1 The first section

bla bla

$\pm \quad \mp$

$\partial \quad \mathrm{d}$

$\int \quad \oint$

$\sum \quad \prod$

$\nabla \quad \mathit{\Delta}$

$x \quad y \quad z$

$\pi \quad \mathrm{e} \quad \mathrm{i}$

$\alpha \quad \beta \quad \gamma$

$\sin \quad \cos \quad \tan$

$$\begin{cases} a_{11}x_1 + a_{12}x_2 + a_{13}x_2 = b_1 \\ \qquad\qquad\quad a_{22}x_3 + a_{23}x_3 = b_2 \end{cases}$$

$$\|\boldsymbol{x}\|_2 = \sqrt{x_1^2 + x_2^2 + \cdots + x_n^2}$$

$$\sin x = \sum_{n=0}^{\infty} \frac{(-1)^n}{(2n+1)!} x^{2n+1} = x - \frac{x^3}{3!} + \frac{x^5}{5!} - \frac{x^7}{7!} + \cdots$$

$$\ln(x+1) = \sum_{n=1}^{\infty} \frac{(-1)^{n-1}}{n} x^n = x - \frac{x^2}{2!} + \frac{x^3}{3!} - \frac{x^4}{4!} + \cdots$$

Euler Equation:

$$\mathrm{e}^{\mathrm{i}x} = \cos x + \mathrm{i} \sin x \tag{1}$$

$$\lim_{x \to 0} \frac{\sqrt{1 + 2\tan x} - \sqrt{1 + 2\sin x}}{x \ln(1+x) - x^2}$$

$$\iint_D \frac{1 + xy}{1 + x^2 + +y^2} \, \mathrm{d}x \, \mathrm{d}y.$$

$$\sqrt{\sum_{i=1}^{n} (y^i - x^i)^2} \tag{2}$$