

$$100\text{ms} = 100 \times 10^{-3}\text{s} = 10^{-1}\text{s}$$

$$f = 1/T = 1/(10^{-1})\text{Hz} = 10\text{Hz} = 10 \times 10^{-3}\text{kHz} = 10^{-2}\text{kHz}$$

$$1/6 \times 360^\circ = 60^\circ$$

$$1/6 \times 360^\circ = 1/6 \times 2 \times \pi\text{rad} = 1/3\pi\text{rad}$$

$$T(t) = \frac{a_a}{2} + \sum_{n=1}^{\infty} \left[a_n \cos \left(\frac{n\pi t}{L} \right) + b_n \sin \left(\frac{n\pi t}{L} \right) \right]$$

$$a_0 = \frac{1}{L} \int_c^{c+2L} f(t) dt$$

$$a_n = \frac{1}{L} \int_c^{c+2L} f(t) \cos \left(\frac{n\pi t}{L} \right) dt$$

$$b_n = \frac{1}{L} \int_c^{c+2L} f(t) \sin \left(\frac{n\pi t}{L} \right) dt$$

$$f(t) = \begin{cases} -1, & -\pi < t < 0 \\ +1, & 0 \leq t < +\pi \end{cases}$$