

# Fourier series and Its Representation

Representation of a function over a certain interval by linear combination of mutual orthogonal function is called Fourier series representation.

$$f(x) = a_0 + \sum_{n=1}^{\infty} \left[ a_n \cos \left( \frac{n\pi x}{L} \right) + b_n \sin \left( \frac{n\pi x}{L} \right) \right]$$

$$a_0 = \frac{1}{2L} \int_{-L}^L f(x) dx$$

$$a_n = \frac{1}{L} \int_{-L}^L f(x) \cos \left( \frac{n\pi x}{L} \right) dx$$

$$b_n = \frac{1}{L} \int_{-L}^L f(x) \sin \left( \frac{n\pi x}{L} \right) dx$$

This series is known as *Trigonometric Fourier series*.



# Fourier Series And Integral Transforms

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