coursera

Item Navigation

Fourier Series

Let

$$f(x) = \frac{a_0}{2} + \sum_{n=1}^{\infty} \left(a_n \cos \frac{n\pi x}{L} + b_n \sin \frac{n\pi x}{L} \right).$$

(a) Show that $f(x + 2L) = f(x)$, that is, $f(x)$ is a periodic function with period $2L$.

(b) Show that a_0 is twice the average value of $f(x)$.

Completed

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