Solução dos exercícios

Série de Fourier – 3 últimos exercícios

A) $f(x) = -\frac{\pi}{2} + \sum_{m=1}^{\infty} \left[-\frac{2}{\pi(2m+1)^2} \cos(2m+1)\,x + \frac{(-1)^{m+1}}{m} \sin mx \right]$

B) $f(x) = \sum_{m=1}^{\infty} \left[\frac{(-1)^m}{m\pi} \operatorname{sen} m\pi\,x + \frac{4\,(-1)^m}{(2m-1)^2\pi^2} \sin \frac{(2m-1)}{2} \pi x \right]$

C) $f(x) = -\frac{L}{2\pi} \sum_{m=1}^{\infty} \left[\frac{1}{m} \sin \frac{m\pi}{L} x \right]$