

## Solução dos exercícios

### Série de Fourier – 3 últimos exercícios

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

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

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