

1 Transformada de Fourier discreta

2 Gerando séries

$$y_i = a_1 \cos(\omega_1 t_i) + a_2 \sin(\omega_2 t_i), t_i = i \cdot \Delta t, i = 1, \dots, N \quad (1)$$

A $N = 200, \Delta t = 0.04, a_1 = 2, a_2 = 4, \omega_1 = 4\pi(\text{Hz}), \omega_2 = 2.5\pi(\text{Hz})$

B $N = 200, \Delta t = 0.04, a_1 = 3, a_2 = 2, \omega_1 = 4\pi(\text{Hz}), \omega_2 = 2.5\pi(\text{Hz})$

C $N = 200, \Delta t = 0.4, a_1 = 2, a_2 = 4, \omega_1 = 4\pi(\text{Hz}), \omega_2 = 0.2\pi(\text{Hz})$

D $N = 200, \Delta t = 0.04, a_1 = 3, a_2 = 2, \omega_1 = 4\pi(\text{Hz}), \omega_2 = 0.2\pi(\text{Hz})$