

0 C 4 = -=  $0 = -\frac{4}{5}(10) + 6$ Recta horizontal  $y = -\frac{4}{5} \times + 8$ = 8 ٠. Que cruza eje y en ordenada 4 Periodo = 10 segundos Juncian no es par ni impar.

$$R_{N} = \frac{2}{7} \int_{1}^{7} f(t) \cos h wot dt$$

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$$= \frac{4}{5} \int_{1}^{7} (ashw_{t} dt) + \frac{4}{5} \int_{1}^{7} f(t) \cos h w_{t} dt + \frac{8}{5} \int_{1}^{7} (ashw_{t} dt) + \frac{4}{5} \int_{1}^{7} (ashw_{t} dt) + \frac{$$

$$O_{h} = -\frac{4}{25} \int_{5}^{10} t \cos h w_{0} t dt = \frac{4}{25} \int_{10}^{5} t \cos h w_{0} t = \frac{4}{25} \int_{10}^{5} \int_{10}^{10} t \cos h w_{0} t dt = \frac{4}{25} \int_{10}^{5} \int_{10}^{10} t \cos h w_{0} t dt = \frac{4}{25} \int_{10}^{5} \int_{10}^{10} t \cos h w_{0} t dt = \frac{4}{25} \int_{10}^{5} \int_{10}^{10} t \cos h w_{0} t dt = \frac{4}{25} \int_{10}^{5} \int_{10}^{10} t \cos h w_{0} t dt = \frac{4}{25} \int_{10}^{5} \int_{10}^{10} t \cos h w_{0} t dt = \frac{4}{25} \int_{10}^{5} \int_{10}^{10} t \cos h w_{0} t dt = \frac{4}{25} \int_{10}^{5} \int_{10}^{10} t \cos h w_{0} t dt = \frac{4}{25} \int_{10}^{5} \int_{10}^{10} t \cos h w_{0} t dt = \frac{4}{25} \int_{10}^{5} \int_{10}^{10} t \cos h w_{0} t dt = \frac{4}{25} \int_{10}^{5} \int_{10}^{10} t \cos h w_{0} t dt = \frac{4}{25} \int_{10}^{5} \int_{10}^{10} t \cos h w_{0} t dt = \frac{4}{25} \int_{10}^{5} \int_{10}^{10} t \cos h w_{0} t dt = \frac{4}{25} \int_{10}^{5} \int_{10}^{10} t \cos h w_{0} t dt = \frac{4}{25} \int_{10}^{5} \int_{10}^{10} t \cos h w_{0} t dt = \frac{4}{25} \int_{10}^{5} \int_{10}^{10} t \cos h w_{0} t dt = \frac{4}{25} \int_{10}^{5} \int_{10}^{10} t \cos h w_{0} t dt = \frac{4}{25} \int_{10}^{5} \int_{10}$$

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$$O_{h} = \frac{4}{7} \int$$

$$\frac{1}{25} = \frac{4}{100} \left[ \frac{4}{100} + \frac{1}{25} \right] + \frac{4}{25} \int_{10}^{10} \frac{1}{100} dt$$

$$\frac{4}{25} \int_{10}^{5} t \operatorname{Seh} w_{0} h t \, dt = -\frac{4}{25} \int_{10}^{5} \left[ t \cos \frac{\pi}{5} h t - \frac{5}{h \pi} \operatorname{Seh} \frac{\pi}{5} h t \right]_{10}^{5}$$

$$= -\frac{4}{5} \int_{10}^{5} \left[ 5 \cos \frac{\pi}{5} h - 10 \cos 2\pi h \right]_{10}^{5}$$

$$= \frac{4}{5710} \left[ \frac{10 - 560511n}{10 - 560511n} \right] = \frac{4}{100} \left[ \frac{2 - 60511n}{100} \right]$$

$$O_{h} = \frac{4}{n\pi} \left[ \cos \pi n - 1 \right] + \frac{4}{n\pi} \left[ 2 - \cos \pi n \right] = \frac{4}{n\pi} \left[ \cos \pi n - \cos \pi n + 2 - 1 \right]$$

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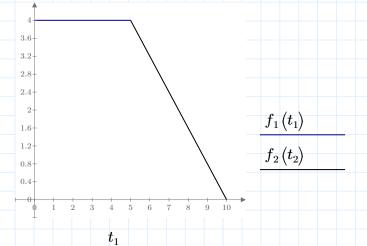


$$t_1 \coloneqq 0, 0.1..5$$

$$t_2 = 5, 5.1..10$$

$$f_1(t_1) \coloneqq 4$$

$$f_2(t_2) = \frac{-4}{5} t_2 + 8$$



 $t_2$ 

Función propuesta:

$$\begin{bmatrix} 4 & 0 \le t \le 5 \\ \frac{-4}{5} t + 8 & 5 \le t \le 10 \end{bmatrix}$$

k = 10000 $d_1\!\coloneqq\!2\qquad d_2\!\coloneqq\!3$ T = 10r = 0.01 $t_4\!\coloneqq\!-d_1\!\cdot\! T, -d_1\!\cdot\! T\!+\! r...d_2\!\cdot\! T \qquad \qquad t_5\!\coloneqq\! 0, r..T$  $w \coloneqq \frac{2 \pi}{T}$   $a_0 \coloneqq 6$   $n \coloneqq 1, 2...k$  $a_n(n) \coloneqq \left(\frac{2}{n \cdot \pi}\right)^2 \cdot \left(\cos\left(\pi \cdot n\right) - 1\right)$  $b_n(n) \coloneqq \frac{4}{n \cdot \pi}$  $f(t) \coloneqq \frac{a_0}{2} + \sum_{n=1}^k \left( a_n(n) \cdot \cos\left(n \cdot w \cdot t\right) + b_n(n) \cdot \sin\left(n \cdot w \cdot t\right) \right)$ 

