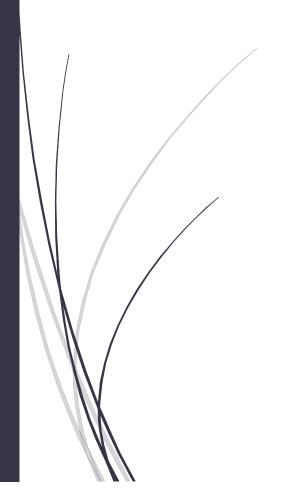
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## Participación 1.1

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Recoverage el intervalo a 
$$-2 < t < 2$$
, con  $A = 1$ 
 $x(t) = t + 1$  en  $1 < t < 0$ ;  $1 - t$  en  $0 < t < 1$ ;  $0$  en otro acco

 $a_0 = \frac{1}{4} \int_{x}^{2} x(t) dt = \frac{1}{4} \int_{0}^{1} (t+t) dt + \frac{1}{4} \int_{0}^{1} (t-t) dt$ 
 $\omega = \frac{2\pi}{4} = \frac{\pi}{2}$ 
 $= \frac{1}{4} \left[ \frac{1}{2} + t \right]_{0}^{0} + \frac{1}{4} \left[ t - \frac{t^2}{2} \right]_{0}^{1} = \frac{1}{4} \left[ \frac{1}{2} \right] + \frac{1}{4} \left( \frac{1}{2} \right) = \frac{1}{4}$ 
 $a_1 = \frac{1}{2} \int_{0}^{1} (t+t) \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} (t-t) \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0}^{1} \cos \left( \frac{n n t}{2} \right) dt + \frac{1}{2} \int_{0$ 

$$f(t) = \frac{1}{4} + \sum_{n=1}^{100} \frac{4}{n^2 \pi^2} \left( 1 - \cos\left(\frac{n\pi}{2}\right) \right)$$