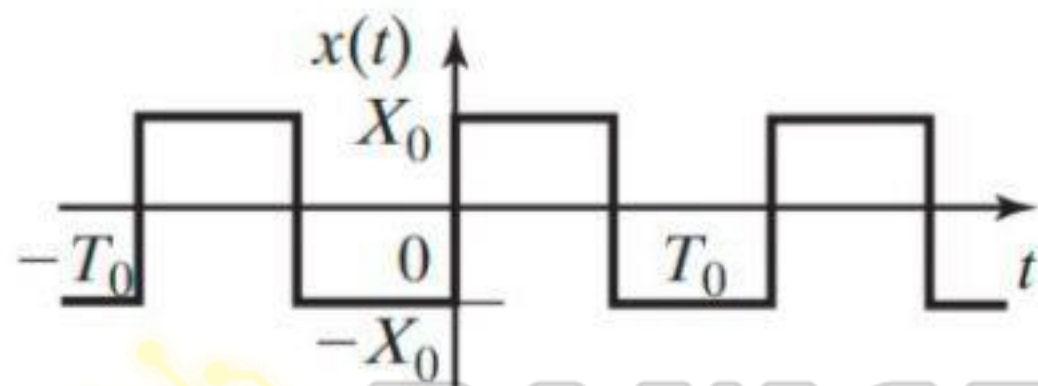Use the Time Differentiation Property to find the Fourier Series of the signal x(t) given below. Then, find the Fourier Series of $y(t) = x(-t) + x(T_o - t)$

Answer:

Paragraph   B   I   X₂   x²   Ω

P   0 WORDS   POWERED BY TINY

SUBMIT ANSWER

Question 2/4

Find the Fourier Transform of the signal $f(t) = \dfrac{\cos(\mu t)}{\frac{\alpha}{t} + \beta}$, where α, β, and μ are positive real constants.

Please, show all work and refer to the Fourier Transform properties used in the solution.

Answer:

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SUBMIT ANSWER

Find the Fourier Transform of the signal $f(t) = \dfrac{\sin(\mu t)}{\frac{a}{t} + \beta}$, where a, β, and μ are positive real constants.

Please, show all work and refer to the Fourier Transform properties used in the solution.

Answer:

Paragraph

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Find the Fourier Transform of the signal $f(t) = U(\cos(\pi t) - \sin(\pi t))$, where $U(\cdot)$ is the unit step function. Sketch the Fourier Spetrum.

Please, show all work.

Answer:

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O WORDS POWERED BY TINY

Compute and roughly sketch $y(t) = x(t) * h(t)$, where $x(t) = e^{-t}[U(t) - U(t-1)]$ and $h(t) = 2U(t) - U(t+1) - U(t-1)$.

Please, show all steps.

Answer:

Paragraph

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