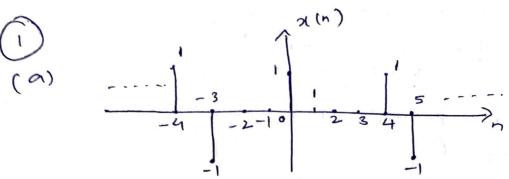
Assignment - I Solutions



Merefre, it is Periodic with a fundamental Period of 4.

Period γ the first term $N_1 = 1$ Period γ the Second term $N_2 = \left(\frac{2\pi}{4\pi/\gamma}\right)^m = 7 \left(\frac{100}{4m-2}\right)^m$ Period γ the second term $\gamma = \left(\frac{2\pi}{4\pi/\gamma}\right)^m = 7 \left(\frac{100}{4m-2}\right)^m$ Period γ the second term $\gamma = \left(\frac{2\pi}{4\pi/\gamma}\right)^m = 7 \left(\frac{100}{4m-2}\right)^m$ Period γ the second term $\gamma = \left(\frac{2\pi}{4\pi/\gamma}\right)^m = 7 \left(\frac{100}{4m-2}\right)^m$ Now when $\gamma = \frac{N_1}{N_2}$ and $\gamma = \frac{N_1}{N_2}$ and $\gamma = \frac{N_1}{N_2}$ overall period $\gamma = \frac{N_1}{N_2}$ and $\gamma = \frac{N_1}{N_2}$ and $\gamma = \frac{N_1}{N_2}$ overall period $\gamma = \frac{N_1}{N_2}$

Period of the first term $T_1 = \frac{2\pi}{10} = \frac{\pi}{5}$ Period of the Second term $T_2 = \frac{2\pi}{4} = \frac{\pi}{2}$ The Retindmental Fundamental

The Retind remains

$$2(n) = 1 - \sum_{k=3}^{\infty} S(n-1-k)$$

$$= 1 - \left[S(n-4) + S(n-5) + S(n-6) + \cdots \right]$$

$$= 1 - \left[u(n-3) \right]$$

$$= u(-n+3)$$

This implies that M=-1, ho=-3

(3)
$$E = \int_{e}^{\infty} e^{4t} dt = \frac{1}{4}$$
, $P = 0$, because $E < \infty$

(b)
$$\gamma_{2}(t) = e^{\frac{1}{2}(2t+\frac{\pi}{2})} |\gamma_{2}(t)| = 1, E = \int_{-2}^{\pi} |\gamma_{2}(t)|^{2} dt$$

(c)
$$E = \int_{\infty}^{\infty} \frac{\cos^{\gamma}(t)}{\cos^{\gamma}(t)} dt = \infty$$

$$P = \int_{0}^{+\infty} \frac{\cos^{\gamma}(t)}{\cos^{\gamma}(t)} dt = \int_{0}^{+\infty} \frac{1}{2T} \int_{0}^{+\infty} \frac{1}{2T} \int_{0}^{+\infty} \frac{1}{2T} dt$$

(d)
$$E = \frac{3}{3} (4)^n = \frac{4}{3} / P = \infty$$

(e)
$$E = \infty$$
, $\rho = 0$

$$E = \sum_{n=-\infty}^{\infty} (o_n)^n (\frac{\pi}{4}n) = \infty$$
, $\rho = \sum_{n=-\infty}^{\infty} (o_n)^n (\frac{\pi}{4}n) = \infty$, ρ