

Saathi) 2((-(-))= (+) dt JKVOX 2JAK Sin (3 KWO) 2 Sin (3 Kwo) 9K. $X(t) = Cos 4\pi t$ $= \frac{1}{2}(e^{34\pi t} + e^{-34\pi t})$ $= \frac{1}{2}(e^{34\pi t} + e^{-34\pi t})$ $= \frac{1}{2}(e^{34\pi t} + e^{-34\pi t})$ Q2 P 7= 20-9,0 = (7-) 10 3(+1) = Sim 61T+ ... = -361T+) Z(+)= 7(4) y(+)= COS 4174 Sim 6774 $=\frac{1}{2}\left(\sinh 10\pi t + \sinh 2\pi t\right) \rightarrow T = 1$ 1 e-jont + 1 ej2nt -1 e-j2nt J1017t.



| 4 4 | |
|-----|--|
| | Date / |
| | $T = 6 \Rightarrow \omega_0 = \frac{2\Pi}{6}$ |
| Q'5 | $\chi(t) \rightarrow \text{Real} \Rightarrow \chi(t) = \chi^*(t)$ |
| | $q_{-K} = q_{K}$ |
| | |
| | $\sim (1+-3)$ |
| | $\gamma(t) = -\gamma(t-3)$ |
| | 9K = - 9K e - IK & ETX8 |
| | 9K = - 9K e JKO ZIX8 = OR E JKIL |
| | |
| | 9K=-9KE |
| | 5007 |
| | $q_0 = -q_0 \Rightarrow q_0 = 0$ |
| | $\alpha \left(1 \right) = -4 - 1$ |
| | |
| | $q_2 = -q_2 \Rightarrow q_2 = 0$ $q_2 = -q_{-2} \Rightarrow q_{-2} = 0$ |
| | $\pi(t) = q_1 e^{j\omega_0 t} + q_{-1} e^{-j\omega_0 t}$ |
| | $\pi(t) = q_1 e$ |
| | = qiejwot + qi e-jwot |
| | = 9, e mo + 9, e |
| | no iont) |
| | - 2 Re (910 |
| | = 29, Cos wot |
| | |
| | |
| | Averge Power = 1 / nets/2dt = 5 19K/2 |
| | To the second of |
| | $= 9_1^2 + 9_4^2$ |
| | 1 2 2 - 1 |
| | $\frac{1}{2}$ |
| | 412 |
| | V2 |
| | |
| | 71+)= Q.52 (D) WOT = 52 (D) IT t |
| | 3 |
| | |

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