Report
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1. (a) $y(n) = c98[n/6]$
No = RTK = IRRK + KEZ Wo
Since signal is discrete, No cannot be in terms of
Inference from plot: Signal is Aperiodic
(b) $y[n] = cos [8\pi]$
$N_0 = 2\pi K = 31K \Rightarrow N_0 = 31 (K=4)$ $\omega_0 \qquad 4$
Thus fundamental frequency is 1
Influence: graph is periodic and repeats after 31
(c) $y(t) = c08(t/6)$

To = 2πK = 12π => fundamental frequency is 1/12π

To firence, graph is periodic

(d)
$$\kappa(t) = \cos(\frac{t}{6}) + \sin(\frac{2\pi}{3}t)$$

To: LCM of 12x, 3 & doll not exist

Inference: graph is aperiodic and frequency doll not exist.

 $x(t) = 2e^{-\alpha t} + 30$ 2. = 0 & < 0 = 0 & < 0 **(a) **(a) ** (b) **(a) ** Ev (*) = x(+) + x(-+) but N. 6 7. Kus Greekier in Apprison 100 xt = x = xt < 011 0dd (x(t)) = x(t) - x(-t)Odd (n(t)) = (e-dt + 20t > 0) -eat + 40 ... value of a for plot = 2 Value of interval = 16+3; 3] The interval was chosen to be equi-distributed ship signal at: t= 0 The smaller values of interval and a helps visually to show the nature of where and values for 2 (t) at different t in the interval (since the signal is exponential it increases rapidly for higher values of t)