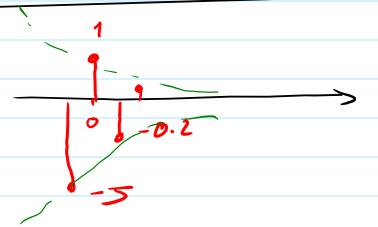
18-10:5/m-

$$x[n] = c \propto n$$

1)
$$\alpha$$
: γ \rightarrow α α \rightarrow \rightarrow α \rightarrow α

$$\lambda(n) = (-0.2)^n$$

$$(-0.2)^{1} = \frac{1}{-0.2} = -5$$



$$\alpha < -1 \qquad d = -2 \qquad \alpha (n) = (-2)^n$$

$$\alpha \leq -1 \qquad \alpha \leq -2 \qquad \alpha (n) = (-2)^n$$

$$\alpha \leq -1 \qquad \alpha \leq -2 \qquad \alpha \leq$$

$$2n\omega_{\circ}$$

$$\alpha = j\omega_0 \rightarrow \chi(n) = e = Conwor jannwo$$

: e Jawo Jaw of st.

$$\omega \sim \omega \sim + 2\pi$$

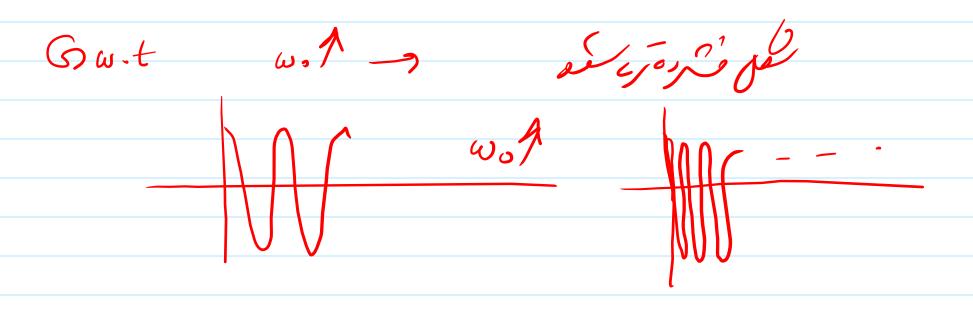
20001

$$=\frac{1}{1}$$

Conwon -> Conwit

ωο, ω· ± 2α, ω· ± 4π, -- -

issi nã Conw. de



Con won

$$x[n] = x[n+N]$$

(July si cirulos N): (List) N / (List) of med em - wind by $W_0 N = 2 \pi M \rightarrow N = \frac{2\pi}{\omega_0} \times M \rightarrow \frac{2\pi}{\omega_0} \times \frac{2\pi}$ $\frac{27}{\omega_0} = \frac{P}{q}$ $N = \frac{P}{q} \times m \rightarrow m = 9 \rightarrow N = P$ V = P V $\omega_{0}=3$ $\frac{21}{3}$ $\frac{1}{3}$ in -a -> Con3n, du3n;

$$\lambda[n] = e^{\frac{j 3\pi}{11}n}$$

$$\omega_{\circ} = \frac{3\pi}{11}$$

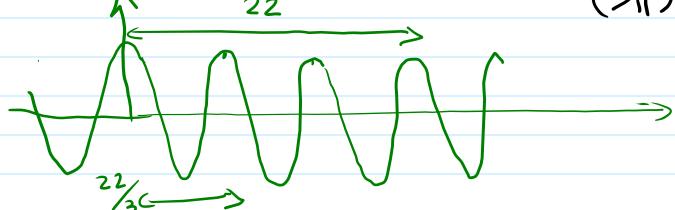
$$\frac{2\pi}{\omega_0} = \frac{2\pi}{3\pi} = \frac{2\pi}{3\pi} |x| = \frac{2x||}{3} = \frac{2z}{3}$$

$$N = \frac{27}{\omega_3} \chi m = \frac{22}{3} \chi m = \frac{22}{3} \chi 3 = 22$$

$$-\omega J G m juld 3$$

$$\gamma(t) = e^{3\pi t} - 27 = 27 = 27 = 22$$

$$\Lambda(t) = e^{3\pi t} - 22$$



$$\pi(n)=e^{2\omega n} = Gn\omega_{n} + j \omega_{n}$$

$$\pi(n)=e^{2\omega n} = Gn\omega_{n} + j$$

$$\omega \rightarrow \pi \qquad \rightarrow \chi(n) = Gn\pi \qquad \qquad \downarrow -1 \qquad \downarrow 1 \qquad \downarrow 3$$

$$-2 \qquad \downarrow -1 \qquad \downarrow 2 \qquad \downarrow 1 \qquad \downarrow 2 \qquad \downarrow$$

$$P_{1}(n) = e^{-2\pi N}$$

$$P_{2}(n) = e^{-2\pi N}$$

$$P_{2}(n) = e^{-2\pi N}$$

$$P_{3}(n) = e^{-2\pi N}$$

$$P_{4}(n) = P_{4}(n)$$

$$P_{4}(n) = P_{4}(n)$$

$$P_{4}(n) = P_{4}(n)$$

200 W. 1 Po[n]=1=0

) Kust

K50

9. [n] 9, [n] PNIM PNIMI

PN-([1]

P2N7[n]

16 N=3

9. [n]=1 9. [n] 9. [n]

L=8=3+3+2

 $x(n) = \alpha^n$

2000 Jwon

 $n(n) = c \alpha$

C: bus

4: Cee

$$\pi(n) = C \propto^{n} \qquad C = |c| e^{j\phi} = |c| G_{j\phi} + j |c| R_{j\phi}$$

$$7 \quad \pi(n) = (|c| G_{j\phi}) + j |c| R_{j\phi}) \times^{n} = (|c| G_{j\phi}) \times^{n} + j (|c| R_{j\phi}) \times^{n}$$

$$9 = \frac{\pi}{3} \quad 7 \quad G_{j\phi} = \frac{1}{2} \quad |c| = 1 \quad C = e^{j\phi}$$

$$Re \quad \pi(n) = \frac{1}{2} \propto^{n}$$

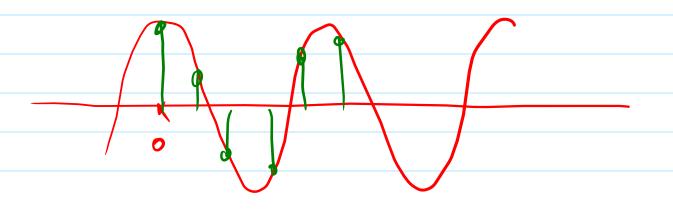
$$\frac{1}{2} (0.3)^{n} \quad Z$$

$$\frac{1}{2} (0.3)^{n} \quad Z$$

$$\frac{1}{2} (0.3)^{n} \quad Z$$

$$\frac{1}{2} (0.3)^{n} \quad Z$$

$$1 = |c| e^{j\phi} e^{j\omega \cdot n} = |c| e^{j\phi} e^{j\omega \cdot n} = |c| e^{j\phi} e^{j\omega \cdot n} + |c| e^{j\phi} e^{j\omega \cdot n} = |c| e^{j\phi} e^{j\omega \cdot n} + |c| e^{j\phi} e^{j\omega \cdot n} = |c| e^{j\phi} e^{j\omega \cdot n} + |c| e^{j\phi} e^{j\omega \cdot n} = |c| e^{j\phi} e^{j\omega \cdot n} = |c| e^{j\phi} e^{j\omega \cdot n} + |c| e^{j\phi} e^{j\omega \cdot n} = |c| e^{j\phi} e^{j\omega \cdot n} = |c| e^{j\phi} e^{j\omega \cdot n} + |c| e^{j\phi} e^{j\omega \cdot n} = |c| e^{j\phi} e^{j\omega \cdot n} + |c| e^{j\phi} e^{j\omega \cdot n} = |c| e^{j\phi} e^{j\omega \cdot n} + |c| e^{j\phi} e^{j\phi} e^{j\phi} + |c| e^{j\phi} + |c| e^{j\phi} e^{j\phi} + |c| e^{j$$



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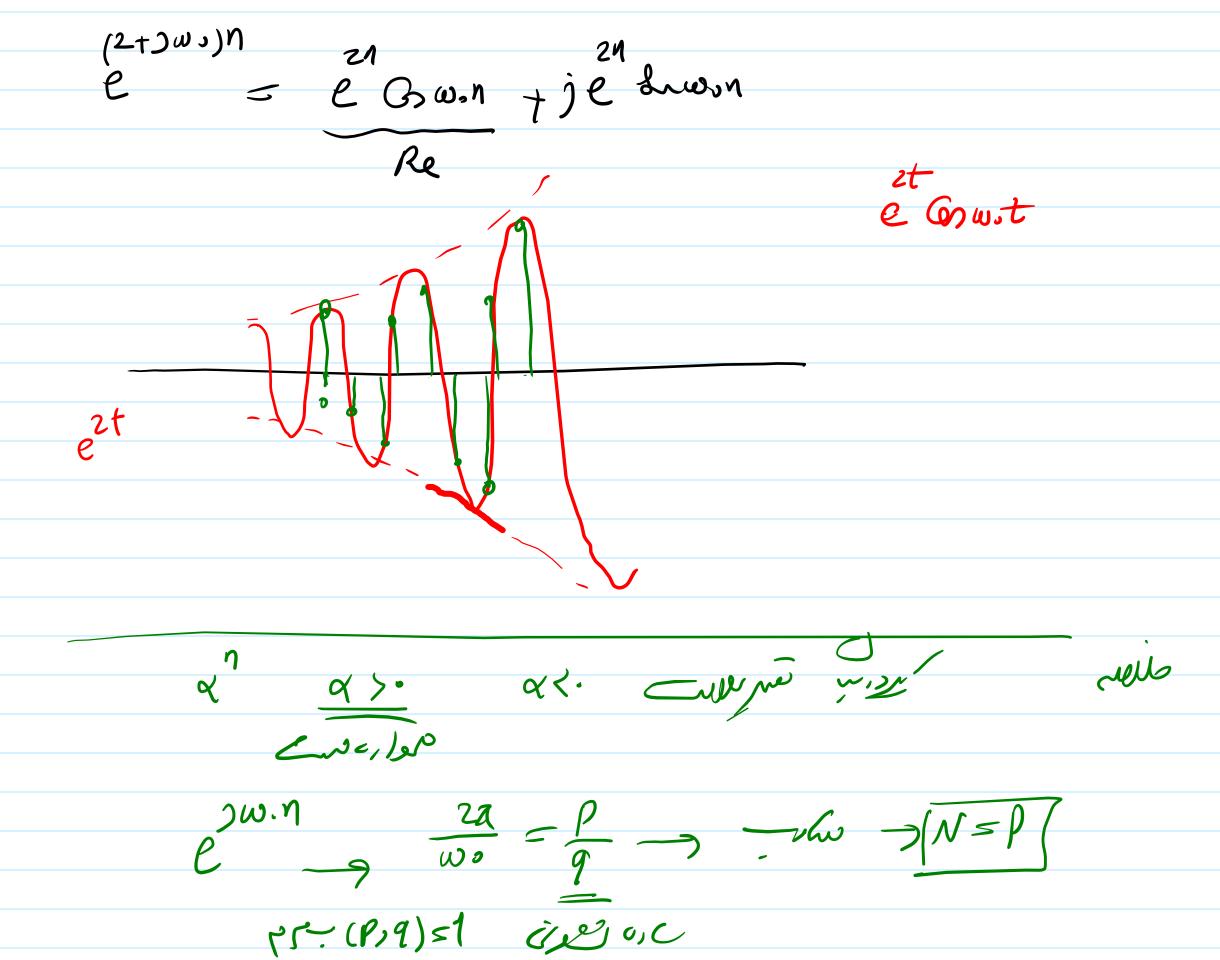
Co(noo+ 4)

(M) inbien for Go watter Grant The individual subjects of Sent Land of Ends

n[n]=ce

$$n(n) = (a+)w\circ)n = an own$$

- e oswin + je drwin



 $\frac{j^{2}}{N} n \qquad j^{2} \frac{j^{2}}{N} n \qquad j^{2} \frac{j^{2}}{N} n \\
e \qquad e \qquad e$ $\frac{j^{2}}{N} n \qquad e \qquad e$ $\frac{j^{2}}{N} n \qquad e \qquad e$