Ju Cindin +  $\frac{i(t)}{v(t)}$   $P(t) = v(t) \cdot l(t) = \frac{v(t)}{R} = Ri(t)$ ニルがひらぬしん  $\int_{t_{1}}^{t_{1}} P(t)dt = \int_{t_{1}}^{t_{1}} \frac{v^{2}t}{R} dt \qquad (t_{1},t_{2}) \quad b_{1} = b_{1} = b_{1}$  $\frac{1}{t_1-t_1}\int_{t_1}^{t_1} Plt|dt = \frac{1}{t_2-t_1}\int_{t_1}^{t_1} \frac{v^2tt}{R}dt$   $\frac{1}{t_2-t_1}\int_{t_1}^{t_1} Plt|dt = \frac{1}{t_2-t_1}\int_{t_1}^{t_1} \frac{v^2tt}{R}dt$   $\frac{1}{t_2-t_1}\int_{t_1}^{t_1} Plt|dt = \frac{1}{t_2-t_1}\int_{t_1}^{t_2} \frac{v^2tt}{R}dt$   $\frac{1}{t_2-t_1}\int_{t_1}^{t_2} Plt|dt = \frac{1}{t_2-t_1}\int_{t_1}^{t_2} \frac{v^2tt}{R}dt$ reign disoli tot, nec , Mosi, s F= Jalt1 2dt on tit, indirection b  $F = \sum_{n} |x(n)|$ 

 $E_{\infty} = \lim_{t \to \infty} \int_{-\infty}^{\infty} |\chi(t)|^2 dt = \int_{-\infty}^{\infty} |\chi(t)|^2 dt$  $T \rightarrow \infty$   $E_{\infty} = \lim_{N \to \infty} \left| \chi(n) \right|^{2} = \sum_{-\infty}^{+\infty} \left| \chi(n) \right|^{2}$ : 3,3 i mil die 0; 0 = 10. a

 $F_{\infty} = \int_{-\infty}^{\infty} |x| t |x| dt = \int_{-\infty}^{$  $\rho_{\infty} = l_{1} \frac{1}{2N+1} \sum_{N=1}^{N} \frac{1}{2N+1} = \frac{(2N+1)^{4}}{(2N+1)} = \frac{1}{4} = \frac{16}{16}$   $N = \frac{1}{2N+1} = \frac{1}{2N$ - 2 - 1 0 1 2 - Perd 3 3- 76H-1=t For = Stdt = or is pos = or word is bed is pos word in pi

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$$u(n) = \sum_{k=0}^{\infty} S(n-k)$$
 $u(n) = S(n) + S(n-1) + S(n-1) + \cdots$ 

$$\frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}$$

$$u(n) = \sum_{k=-\infty}^{\infty} S(k)$$

$$u(n) = \sum_{k=-\infty}^{\infty} S(k)$$

$$\sum_{n=1}^{\infty} S(n) = 1, \sum_{n=2}^{\infty} S(n) = 0, \sum_{n=3}^{\infty} S(n-1) = 0, \sum_{n=3}^{\infty} S(n-1) = 1$$

$$\{2(n)S(n) = \chi(0)S(n)\}$$

$$\{2(n)S(n-n,1) = \chi(n,0)S(n-n,1)\}$$

$$\{u(t)\} = \{1, t, 0, 0\}$$

$$u(t) = \int_{-\infty}^{t} S(\tau) d\tau$$
,  $S(t) = \frac{du(t)}{dt}$ 

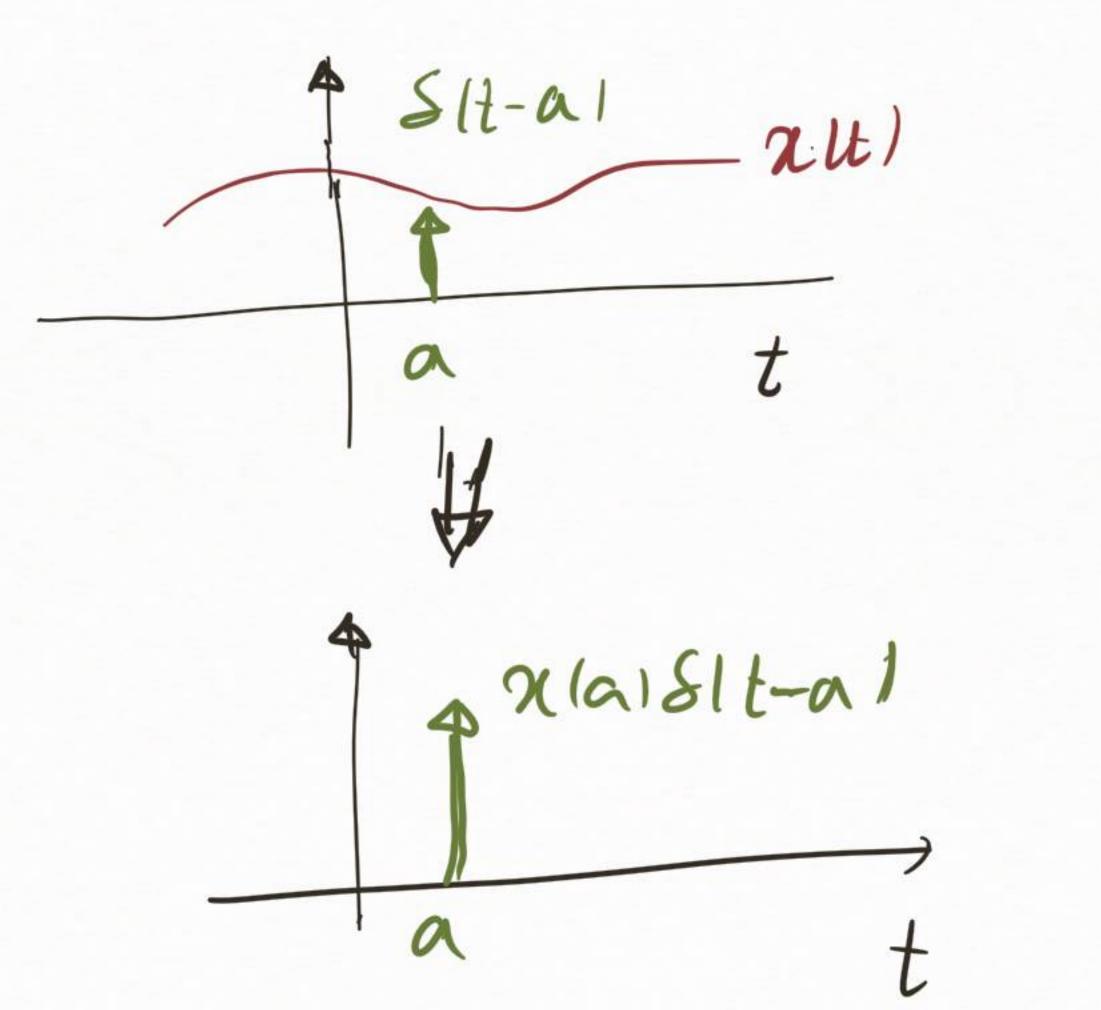
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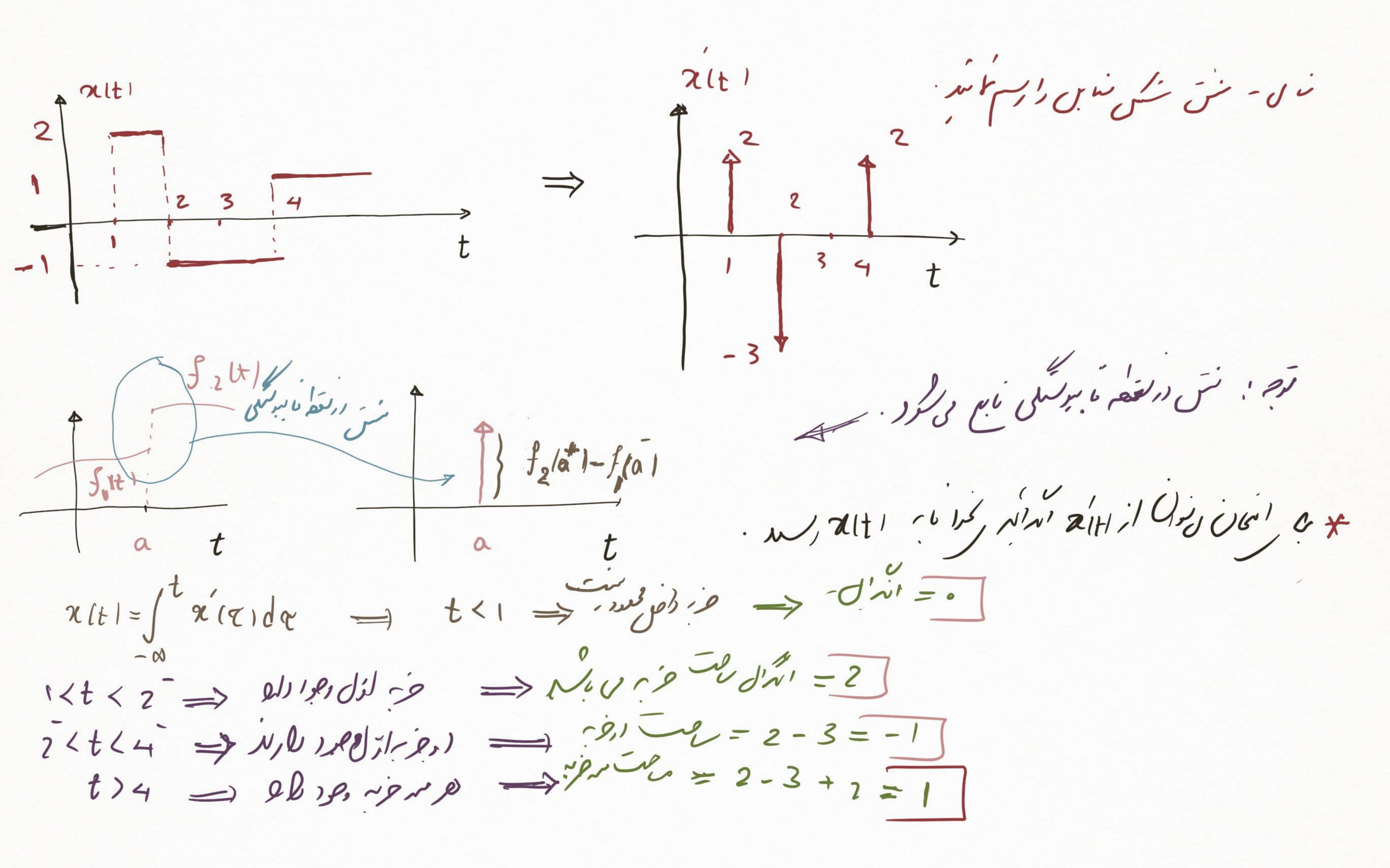


$$36 : 6 : 6 = 6$$

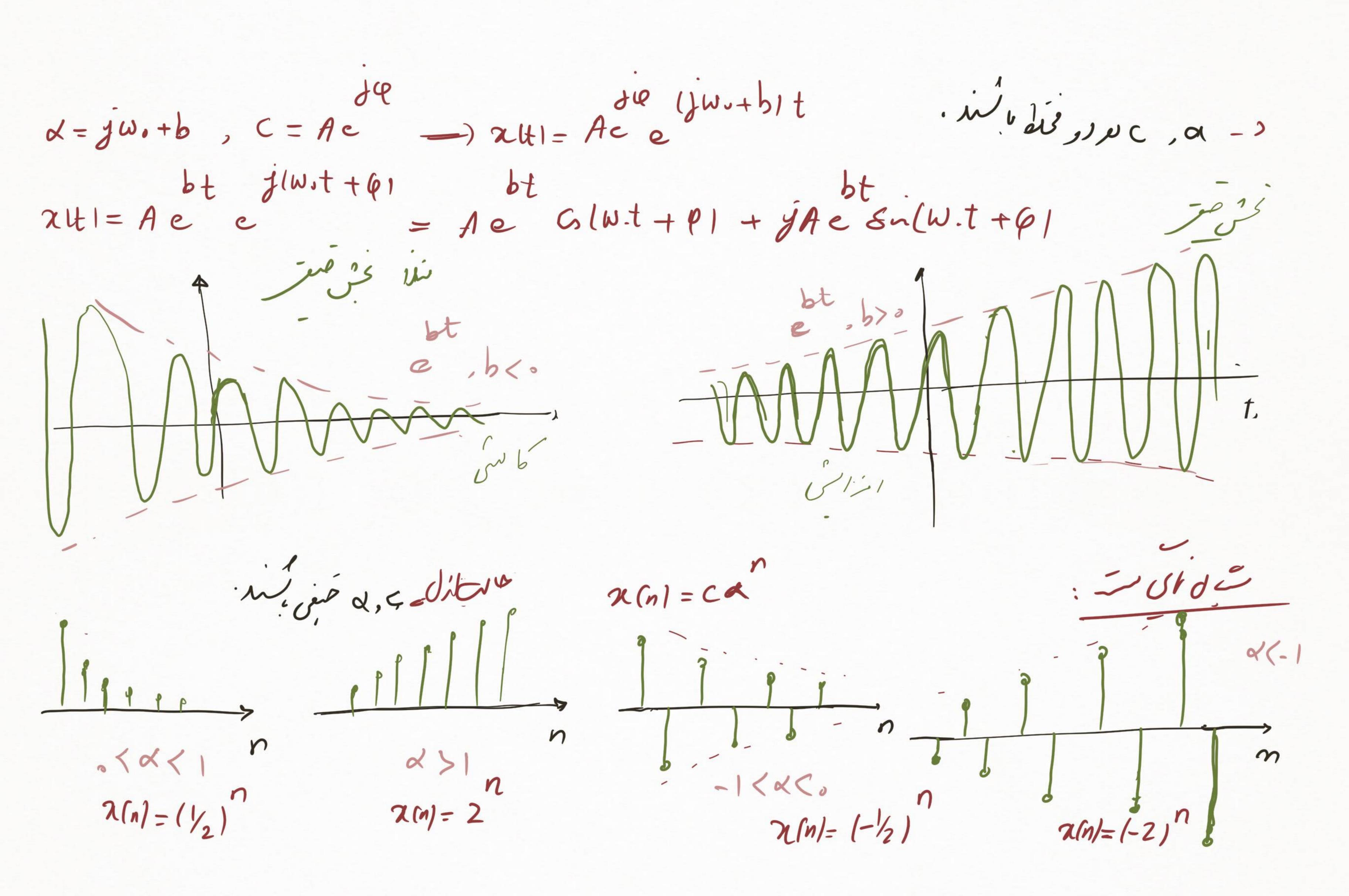
$$36 = 6$$

$$36 = 6$$

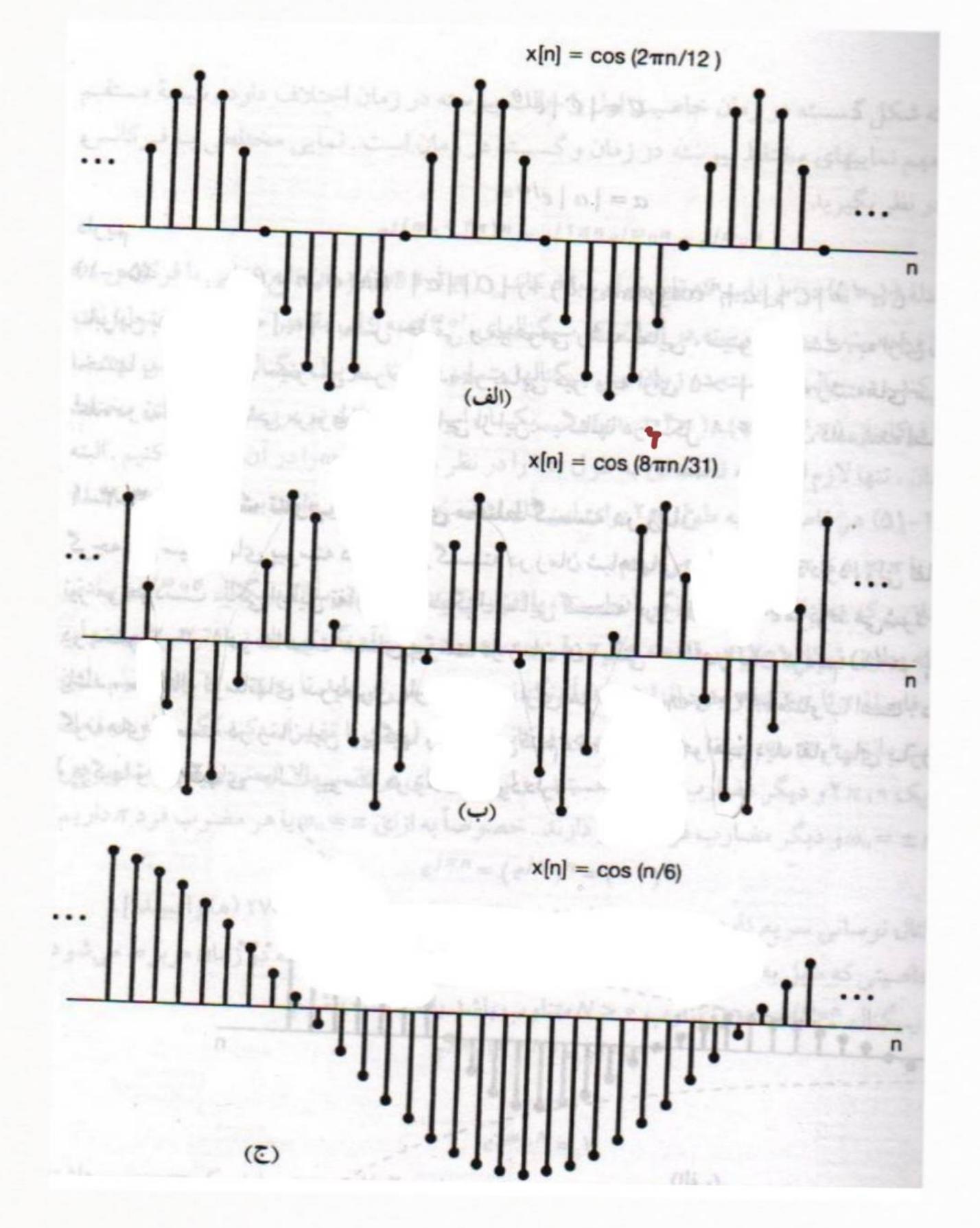
$$\begin{cases} S(at) = \frac{1}{|a|} S(t) : P(t) \\ S(kn) = S(n) \end{cases}$$

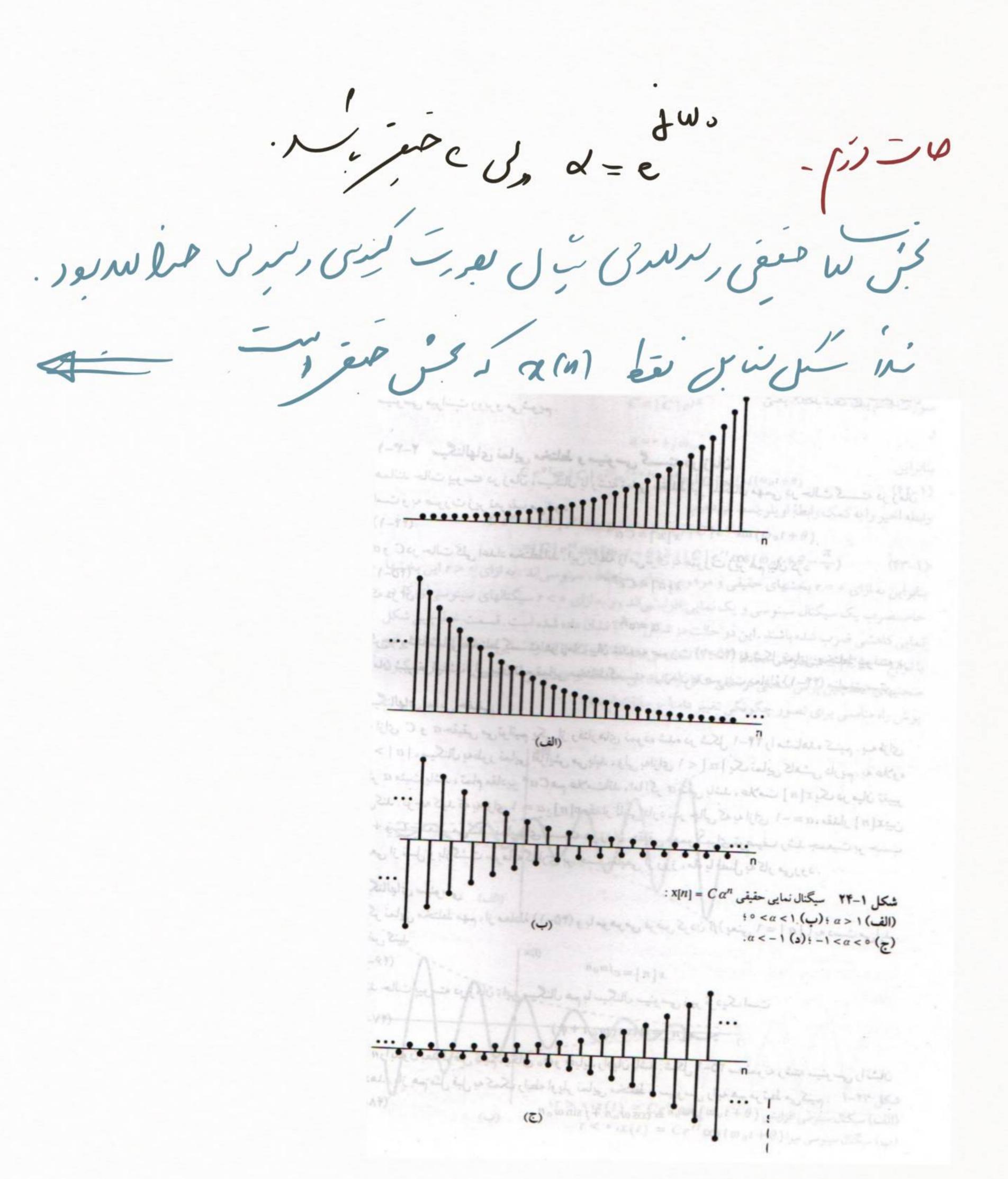


alt1=ce · Lover · in, jeer c , a \_ in, Cigla7° 过台, 广, 流  $\lambda(t) = Ce = C(C_0 w \cdot t + y \cdot s \cdot w \cdot t + t)$   $\lambda(t) = Ce = C(C_0 w \cdot t + y \cdot s \cdot w \cdot t + t)$   $= e \cdot (e + w \cdot t$  $\chi(f)=Ce$ ; C=Ae =  $\chi(t)=Ae$ , e=Ae



2011 = ce = c[Csw.n+ysmw.n]





 $\alpha = |\alpha|e \qquad j\omega \qquad \text{in bis } c , \alpha = \gamma \text{in } 0$   $2 (n) = |c||\alpha|e \qquad = |c||\alpha| C_n [w_{n} + 0] + |\gamma| |c||\alpha| [w_{n} + 0]$ 

الراس المن معنى دارس المرس المرس المرس المرس المرس . = 18;6 شكل ۱-۲۶ (الف) سيگنال سينوسي افزايشي گسسته در زمان ؟

(ب) سینوسی میرای گسسته در زمان.

: Ninty 150 T 711 +T1 = 11t1 نرستری میناوی کردند. 2[N+N]= 2[N]; jegnéien المن : والم المول ما تول ما تول المول الما ور ، بر الموا الما ور ما مول المول ا (x1t) = 52nt -> 2lt+T/=x(t)  $|\chi[n] = C_{12} = |\chi[n+N] = C_{12} (n+N) = C_{12} (n+N) = C_{12} (n+N) = C_{12} (n+N) = C_{12} (n+N)$  $Z|_{\alpha l + l = C_{0}(8nt)} \Rightarrow T = 31/4$   $Z|_{\alpha l + l = C_{0}(8\pi n)} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l + N} \Rightarrow Z(n+N) = G(8\pi n) |_{\alpha l$ 

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 $x[n] = \cos(0-n) = 1$  $x[n] = \cos(\pi n/8)$  $x[n] = \cos(\pi n/4)$  $x[n] = \cos{(\pi n/2)}$  $x[n] = \cos \pi n$  $x[n] = \cos(3\pi n/2)$ · Pb/ 5/5/1/1/2011 - W, = 21 => 2(n)= G2nn=1 +

2(1) = Cowon Wo,= 0 = 1 x(n) = Cson = 1 Wo = TIB W. = 1/4 Wo = IT -) 7(1)= Conn=(-1) No = 3 1/2 + W, = 7 1/4 Wo = 1511/4 7