$$\chi(c) = \stackrel{2c}{c} u(1-c)$$

$$h(c)$$

$$h(-c)$$

$$h(-c)$$

$$h(-c)$$

$$h(t-z)$$

$$\longrightarrow \begin{array}{c} t-5 & \downarrow \\ \downarrow & t \\ t-2 & \end{array}$$

=> 
$$\int_{t-5}^{1} e^{2\tau} (-1) d\tau = -\left[\frac{e^{2\tau}}{2}\right]_{t-5}^{1} = \frac{1}{2} \left(\frac{2t-10}{e} - e^{2\tau}\right)$$

$$T = \frac{t-2}{t}$$
 =>  $\frac{t-2}{t}$  =>  $\frac{t-5}{t}$  =>  $\frac{t-2}{t}$  =>

$$+ \int_{t-2}^{1} e^{2c} dc = \left[ \frac{e^{2c}}{2} \right]_{t-5}^{t-2} + \left[ \frac{e^{2c}}{2} \right]_{t-2}^{1} = \frac{2t-4}{2} + \frac{2t-10}{2}$$

$$t \in (0, t) = (0, t)$$

be 
$$\chi(t-t)$$

$$\downarrow h(t)$$

$$\uparrow h(t)$$

$$\uparrow h(t)$$

$$\uparrow h(t) = 0$$

$$\frac{1}{12} \Rightarrow \frac{1}{12} \Rightarrow \frac{1}{12}$$

3) 
$$2 < t < 3 \Rightarrow \delta(t) = \int_{-1}^{2} dz = 3 - t + (4) t > 3 \Rightarrow \delta(t) = 0$$

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het-z)

2) -1 
$$\delta(t) = \int_{e}^{z} \delta(z_{-}(t+1)) dz_{-} e^{t+1}$$

$$\frac{de}{dt} = \frac{\lambda(c)}{\lambda(t-c)}$$

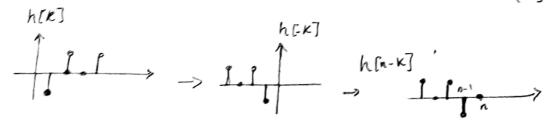
$$\frac{de}{dt} = \frac{\lambda(c)}{\lambda(c)}$$

$$\frac{de$$

$$h(t-z)$$

2) tho => 
$$\delta(t) = \int_{0}^{t} e^{at} dt = \left[ -\frac{1}{a} e^{t} \right]_{0}^{t} = \frac{1}{a} \left( 1 - e^{at} \right)$$

$$\frac{2}{2}) k(n) = -\delta(n-1) + \delta(n-2) + \delta(n-4) \qquad 9 \ f(n) = \chi(n) + h(n)$$

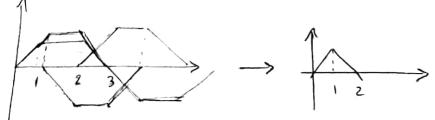


$$\frac{1}{3-2} = \frac{1}{3-2} = \frac{1}$$

3) 
$$A = \int_{-1.5}^{0.5} (t_{+}3t^{2}) \delta(3t^{2}-3) dt + \int_{-1.5}^{0.5} e^{-st+tsint} \delta(t_{-\frac{n}{6}}) dt$$
 $A_{1}: \delta(f(t)) \circ f(t) : k(t_{-4n})(t_{-4n}) = \int_{-1.5}^{0.5} e^{-st+tsint} \delta(t_{-\frac{n}{6}}) dt$ 
 $A_{1}: \delta(f(t)) \circ f(t) : k(t_{-4n})(t_{-4n}) = \int_{-1.5}^{0.5} e^{-st+tsint} \delta(t_{-\frac{n}{6}}) dt$ 
 $A_{1}: \delta(f(t)) \circ f(t_{-\frac{n}{6}}) = \int_{-1.5}^{0.5} \frac{1}{f(t_{-n})} \delta(t_{-n}) dt + \int_{-1.5}^{0.5} \frac{1}{f(t_{-\frac{n}{3}})} \delta(t_{-1}) dt$ 
 $A_{1}: \delta(f(t)) \circ f(t_{-\frac{n}{6}}) = \int_{-1.5}^{0.5} \frac{1}{f(t_{-\frac{n}{3}})} \delta(t_{-1}) dt + \int_{-1.5}^{0.5} \frac{1}{f(t_{-\frac{n}{3}})} \delta(t_{-1}) dt$ 
 $A_{1}: \delta(f(t_{-\frac{n}{6}})) \circ f(t_{-\frac{n}{6}}) = \int_{-1.5}^{0.5} \frac{1}{f(t_{-\frac{n}{3}})} \delta(t_{-1}) dt + \int_{-1.5}^{0.5} \frac{1}{f(t_{-\frac{n}{3}})} \delta(t_{-\frac{n}{3}}) dt + \int_{-1.5}^{0.5} \frac{1}{f(t_{-\frac{n}{3}})} \delta(t_{-\frac{n}{$ 

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على نسب زواء اراى ١٨٥ معدّار غير مسردارد- عيداراست. زيرا مقدار الماما كي عدود h[h]= k8[h] ر المار ( المار المارك (h[n] + K8[n]). \_\_\_///2016 . (h[n] -> 0 lie n-> 0 vo). Tullelie (nro=> h[n]=0). Tulle . C (h[n] + K8[n] ). [n] & x8[n] الم من المال - عبد الراست - طافع داراست . · Ludy palo - Culyle - Lingle - E  $\chi_{\mathbf{Z}}(t) = \chi_{\mathbf{I}}(t) - \chi_{\mathbf{I}}(t-1) + \chi_{\mathbf{Z}}(b-2) - \chi_{\mathbf{I}}(t-3) \rightarrow --$ -> dz(t) = d1(t) \_ d1(t-1) + d1 (t-2) \_ d1(t-3)+ ...



$$Z(t) = \int_{-\infty}^{+\infty} \chi(c) \, y(t-z) \, dz \qquad \qquad Z(kt) * y(kt) = \int_{-\infty}^{+\infty} \chi(kz) \, y(kt-kz) \, dz$$

$$\Rightarrow \lambda = kc \Rightarrow d\lambda = |k|dc \Rightarrow \int_{-\infty}^{+\infty} x(\lambda) \, d(kt - \lambda) \frac{1}{|k|} \, d\lambda = \frac{1}{|k|} \, Z(kt)$$

$$\chi_3(t) = \chi_1(t) + \chi_1(t-1) - \chi_2(t)$$
 Objects \_\_webjects[8]