$$h(\epsilon) = \begin{cases} 0, & < \epsilon < r \end{cases}$$

$$= \frac{-j\omega^{t}}{e} \Big|$$

$$= \left(\frac{-j\omega t}{-j\omega} + \frac{1}{j\omega}\right)$$

$$X_{1}(j\omega) = \frac{1}{2} \times \frac{$$

$$h(t+1) = \begin{cases} 1, & |t| < 1 \\ 2, & |t| > 1 \end{cases}$$

H, (jw) =
$$\frac{Y \sin(w)}{w} = e^{-jw(-1)} H (jw)$$

$$\frac{-j\omega}{c} \times \frac{e^{j\omega}-e^{-j\omega}}{j\omega}$$

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$$= \begin{cases} \frac{1}{\sqrt{100}} & \omega = \omega \\ \frac{1}{\sqrt{100}} & \omega = \omega \end{cases}$$

$$= \int_{0}^{+\infty} (-10 - jw) t$$

$$= \mu \left(\lim_{z \to +\infty} \frac{(-1 - j\omega)t}{-1 - j\omega} - \lim_{z \to +\infty} \frac{1}{-1 - j\omega} \right)$$

Ycju) z Xcju) x H(ju)

$$Y_{(ju)}$$
: $Y_{(k)}(S(w-0)) - S(w+0)) \left(\frac{-\gamma}{-10-ju}\right)^2$

$$\begin{cases} \frac{-9R}{-10-j\omega}, & \omega=\delta \end{cases} \xrightarrow{f^{-1}} \begin{cases} \frac{-9R}{4R}e^{-10t} & \omega(t) \\ \frac{-9R}{+10+j\omega}, & \omega=\delta \end{cases} \times \omega_{12}\delta \qquad \omega_{1} \left(\frac{R}{6\pi} + \frac{1}{2} + \frac{$$

Just: Fi Yujung = 952 e 4(4)

$$X(j\omega)$$
 = $\int_{-\infty}^{+\infty} e^{-st} dt$ = $\int_{-\infty}^{+\infty} (-s-j\omega)^{t} dt$ =

$$\frac{(-\lambda-j\omega)t}{e} + \omega \qquad \qquad \frac{(-\lambda-j\omega)t}{-\lambda-j\omega} - \frac{1}{\lambda-j\omega}$$

$$= \int_{-\infty}^{\infty} \frac{(x-j\omega)t}{e} dt + \frac{1}{-x-j\omega} = \frac{(x-j\omega)t}{x-j\omega} = \frac{1}{-x-j\omega}$$

$$= \frac{1}{x-j\omega} + \frac{1}{x-j\omega} + \frac{1}{x-j\omega} = \frac{1}{x-j\omega} + \frac{1}{x-j\omega}$$

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$$= \frac{1}{x-j\omega} + \frac{1}{x-j\omega} + \frac{1}{x-j\omega} = \frac{1}{x-j\omega} = \frac{1}{x-j\omega} + \frac{1}{x-j\omega} = \frac{1}$$

حرى آيد ما مانو خواص سيل موريه

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$$F \left\{ \begin{array}{l} \chi^{*}(t) \end{array} \right\} = \int_{-\infty}^{+\infty} \chi^{*}(t) e^{-j\omega t} dt = \int_{-\infty}^{+\infty} \chi(t) e^{-j\omega t} dt$$

$$F\left\{a(at)\right\}_{z}\int_{-\infty}^{+\infty}a(at)e^{-j\omega t}dt$$

$$= \int_{-\infty}^{+\infty} \alpha(k) e^{-j\omega k} \frac{1}{\alpha} dk = \frac{1}{\alpha} \int_{-\infty}^{+\infty} \alpha(k) e^{-(j\omega)k} dk$$

$$= \frac{1}{\alpha} \times \left(\frac{j\omega}{\alpha}\right)$$

لى طبق نفى

$$F \xrightarrow{t \leftrightarrow -t} x_{77,71}(-t) = \int_{-\infty}^{+\infty} x(\omega) c d\omega$$