6.15.6.16 6.39 3 5-6.7.8 $(1) / \frac{1}{3} \hat{\chi}(t) = \chi(t+2), \hat{\chi}(t) \hat{\chi}$ $\hat{\chi}(w) = \chi(w)e^{\hat{j}zw}, \chi(w) = \hat{\chi}(w)e^{-2\hat{j}w}$ $\varphi(w) = \{-2w, \hat{\chi}(w) >, 0\}$ $(2) \times (0) = \int_{-\infty}^{+\infty} \chi(t) dt = 13$ $(3) \int_{-\infty}^{+\infty} \chi(w) dw = 2\chi \chi(0) = 4\pi$ $(4) \quad \frac{dx(t)}{dt} \quad \xrightarrow{F} \int u \chi(w) \cdot \int u \chi(w) dw = 2\pi \int \frac{dx(t)}{dt} = 0$ (5) $|\chi(w)|^2 dw = 2\pi \int_{-\infty}^{+\infty} |\chi(t)|^2 dt - \frac{140}{3}\pi$ (b) $\int_{-\infty}^{+\infty} X(w) e^{j2w} dw = 2\pi X(2) = 2\pi$ $(7) Y(t) = \begin{cases} 1, |t| < 1 & F > 2 \leq 1 \leq N \end{cases}$ $\int_{-\infty}^{+\infty} 2\chi(w) \frac{\sin w}{w} e^{j2w} dw = 2\pi \left[\chi(t) \times \gamma(t)\right]_{t=2} = 6\pi$ (8) -jtx(t+2) R d X(w) ejzw $\int_{-\infty}^{+\infty} \frac{dx_{(w)}e^{jzw}}{dw} = 2\lambda \left[-j+\chi(t+z)\right]_{t=0}^{+\infty} = 0$ (9) - X(4) 是京歌教 - Rexx(t) = X(t) + X(-t)

(6)
$$\chi(t-2) \xrightarrow{E} \chi(w) e^{-j2w}$$
 $\chi(\pm 2) \xrightarrow{E} \chi(0) = \frac{1}{2} \chi(w) e^{-j2w}$

$$\chi(\pm 2) \xrightarrow{E} \chi(0) = \frac{1}{2} \chi(0) = 0$$

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$$\chi(\pm 2) \xrightarrow{E} \chi(0)$$

6.39
(5)
$$\lim_{t\to 0} \chi(t) = 10$$
, $\lim_{t\to \infty} \chi(t) = 4$
 $\lim_{t\to 0} \chi(t) = \frac{1}{5}$
(5) $\lim_{t\to 0} \chi(t) = \frac{1}{5}$
(6) $\lim_{t\to 0} \chi(t) = \frac{1}{5}$
(7) $\lim_{t\to 0} \chi(t) = \lim_{t\to 0} \chi(t) =$