



impulse ( ) constant constant impulse
$E \times \times (\omega) = S(\omega) = 3 \times (4) = \frac{1}{2\pi} \int_{-\infty}^{\infty} S(\omega) e^{j\omega t} d\omega = \frac{1}{2\pi} = constant$
$ \frac{1}{2\pi} \stackrel{\text{FT}}{\longleftrightarrow} S(\omega) $ $ 1 \stackrel{\text{FT}}{\longleftrightarrow} 2\pi S(\omega) $
$E \times \mathcal{A}(4) = S(4-t_0) = S(4-t_0) = e^{-j\omega t_0}$
$\sum_{x} (\omega) = 2\pi S(\omega - \omega_0),  \chi(\omega) = \frac{7}{6}$ $\chi(\omega) = \frac{1}{2\pi} \int_{-\infty}^{\infty} X(\omega) e^{j\omega t} d\omega = \frac{2\pi}{2\pi} \int_{-\infty}^{\infty} S(\omega - \omega_0) e^{j\omega t} d\omega$
$\chi(t) = \frac{1}{277} \int_{-\infty}^{\infty} \chi(\omega) e^{-\frac{27}{277}} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} (\omega - \omega_{0}) e^{-\frac{1}{277}} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} (\omega - \omega_{0}) e^{-\frac{1}{277}} \int_{-\infty}^{\infty} (\omega - \omega_{0}) e^{-\frac{1}{277}} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} (\omega - \omega_{0}) e^{-\frac{1}{277}} e^{-\frac{1}{277}} \int_{-\infty}^{\infty} (\omega - \omega_{0}) e^{-\frac{1}{277}} e^{-\frac$
e just = $(os(wat) + i Sin(ust))$ negative frequency
$\frac{1}{2\pi} \qquad \frac{1}{\sin(\omega s t)} = \frac{1}{2} \sin(\omega s t) = $
$E \times X(\omega) = \pi \left( S(\omega - \omega_0) + S(\omega + \omega_0) \right)$ $\pi \wedge \pi$ $\pi(4) = ?  (oS(\omega_0 t))$ $-\omega_0  \omega_0  \omega$
$\frac{\chi(\omega)}{j} = \frac{\pi}{j} \left[ S(\omega - \omega_o) - S(\omega + \omega_o) \right]$ $\chi(+) = ? \qquad \forall h (\omega_o + 1)$
$\chi(t) = ? \qquad \forall h (\omega t)$



