prove planee
$$y(t) = \chi(t) + h(t) = \chi(\omega) = \chi(\omega) + \chi(\omega)$$
 $y(t) = \chi(t) + h(t) = \int_{\infty}^{\infty} \chi(\tau) h(t-\tau) d\tau = \int_{\infty}^{\infty} dt : \text{ fourier hanking}$
 $= \int_{\infty}^{\infty} \chi(\tau) h(t-\tau) e^{-\int_{\infty}^{\infty} d\tau} d\tau = \int_{\infty}^{\infty} \chi(\tau) h(t-\tau) e^{-\int_{\infty}^{\infty} d\tau} d\tau = \int_{\infty}^{\infty} \chi(\tau) \int_{\infty}^{\infty} h(t-\tau) d\tau = \int_{\infty}^{\infty} \chi(\tau) \int_{\infty}^{\infty} h(\tau) d\tau = \int_{\infty}^{\infty} \chi(\tau$