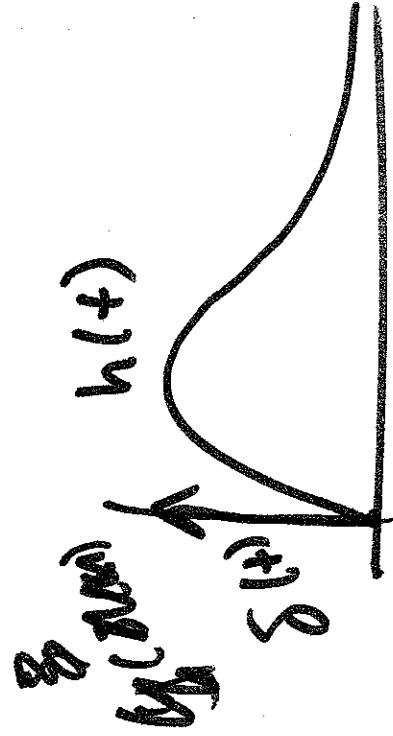
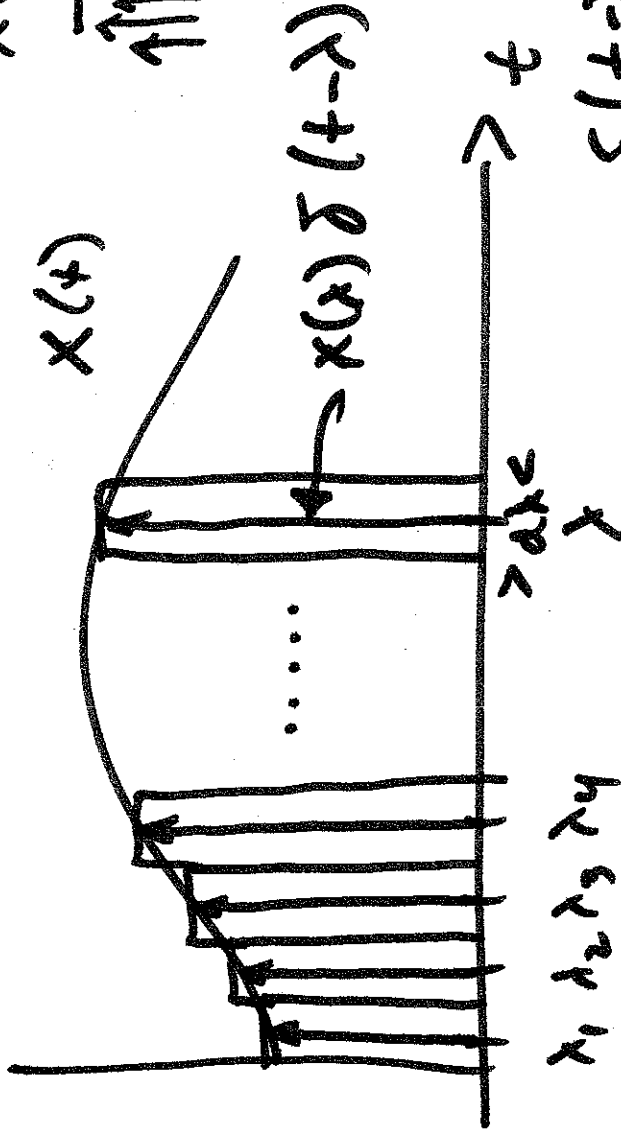
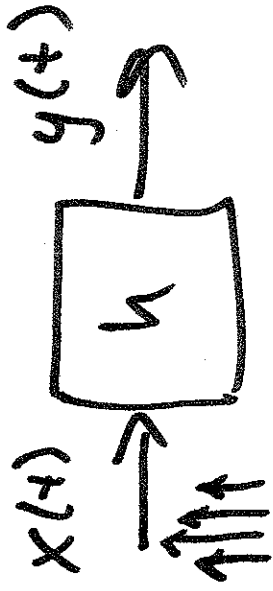
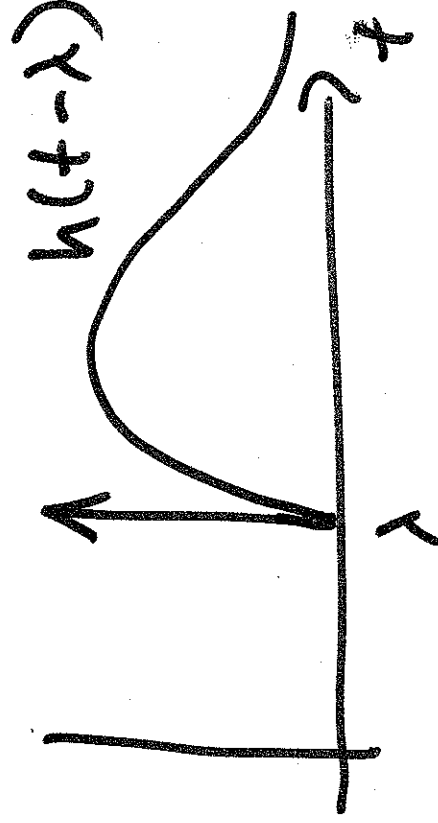


Sifting

$$x(t) = \int_{-\infty}^{\infty} x(\lambda) \delta(t-\lambda) d\lambda$$



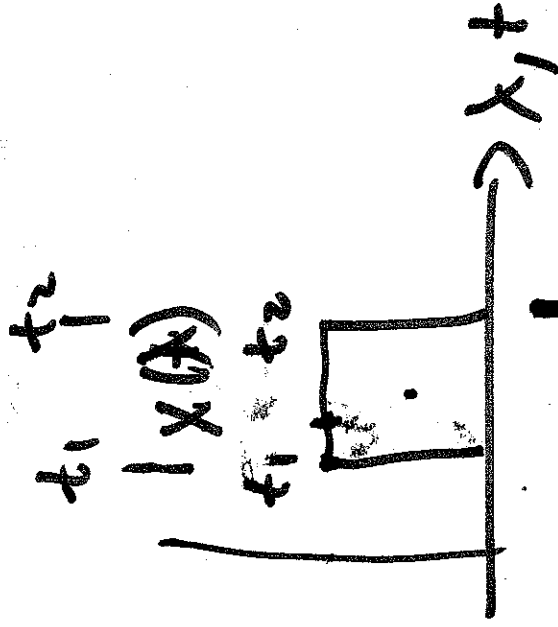
$$\delta(t-\lambda)$$



$$y(t) = \int_{-\infty}^{\infty} x(\lambda) h(t-\lambda) d\lambda$$

$= x(t) * h(t)$ "Convolution"

$$x * h(t) = y(t)$$



$$X(s) \cdot H(s) = Y(s)$$

↑
multiplication

$$\mathcal{L}^{-1}(Y(s)) = y(t)$$

