alexencelves - 398611 e Gustavo Bezeros Fechine - 397269

Lista 6:

Esbo soi graficamente a convolução:

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

$$4(t) = \int_{-\infty}^{\infty} h(\tau) \times (t-\tau) d\tau$$

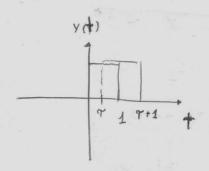
$$= \int_{-\infty}^{\infty} x(\tau) h(t-\tau) d\tau$$

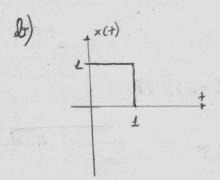
P/+50 .

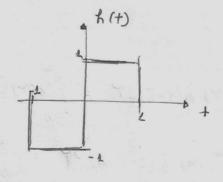
P/+ / 0<+5#1

P/+>1

$$y(t) = \begin{cases} 0, t \le 0 \\ 1, 0 < t \le 2 \\ 0, t > 2 \end{cases}$$



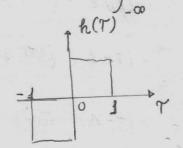


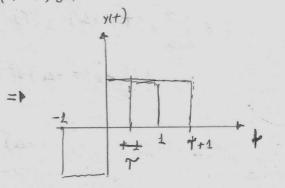


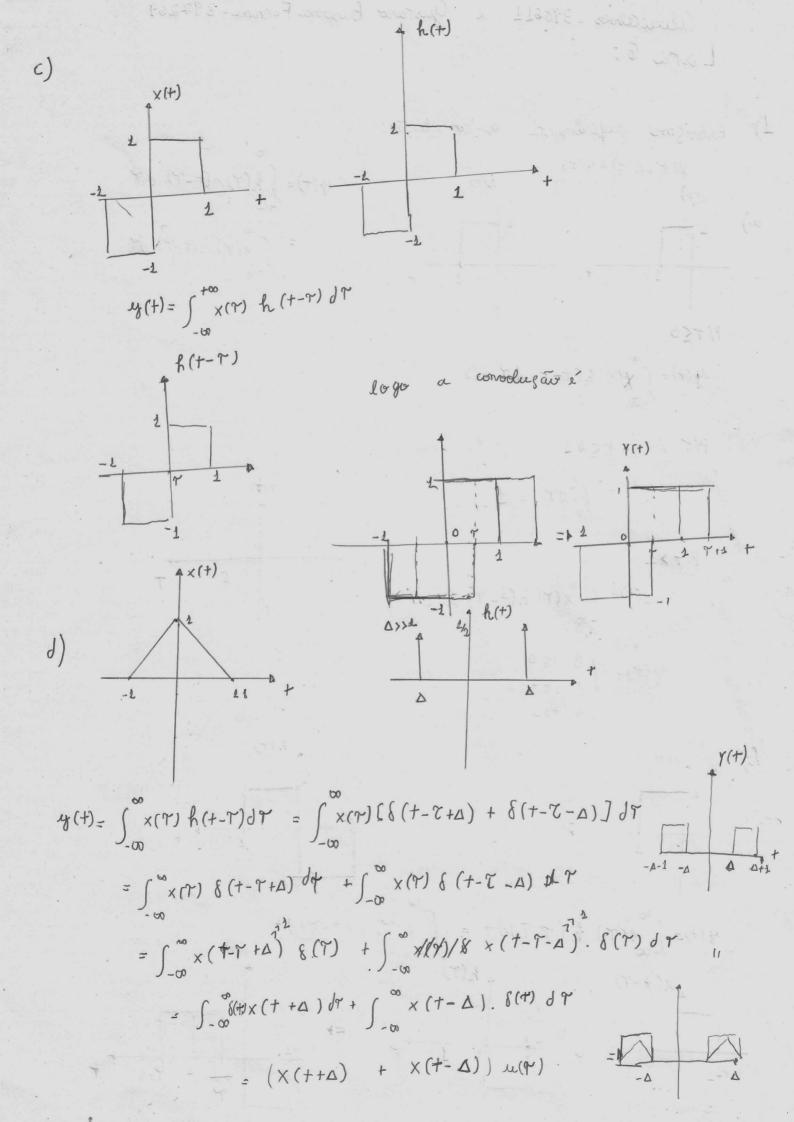
$$4(t) = \int_{-\infty}^{\infty} x(\tau) h(t-\tau) dt = \int_{-\infty}^{\infty} h(\tau) x(t-\tau) dt$$

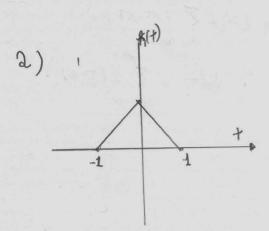
$$x(t-\tau) + \int_{-\infty}^{\infty} h(\tau) x(\tau) d\tau$$

$$+ \int_{-\infty}^{\infty} x(\tau) h(\tau) d\tau$$





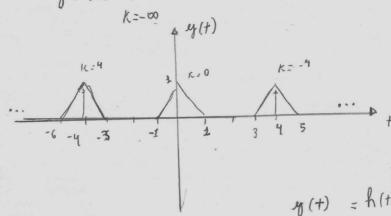


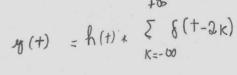


$$X(t) = \sum_{k=-\infty}^{+\infty} \delta(t-kT)$$

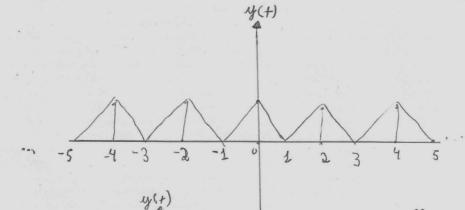
$$y(t) = h(t) * x(t) = h(t) * \begin{cases} 0 & (t-kT) \\ k-\infty & k \end{cases}$$

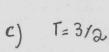
$$T=4$$
 $y(t)=\sum_{K=-\infty}^{+\infty} R(t) * \delta(t-4K)$





 $y(t) = \sum_{k=0}^{\infty} b(t-3/2^{k}) * h(t)$







d= T=1

