

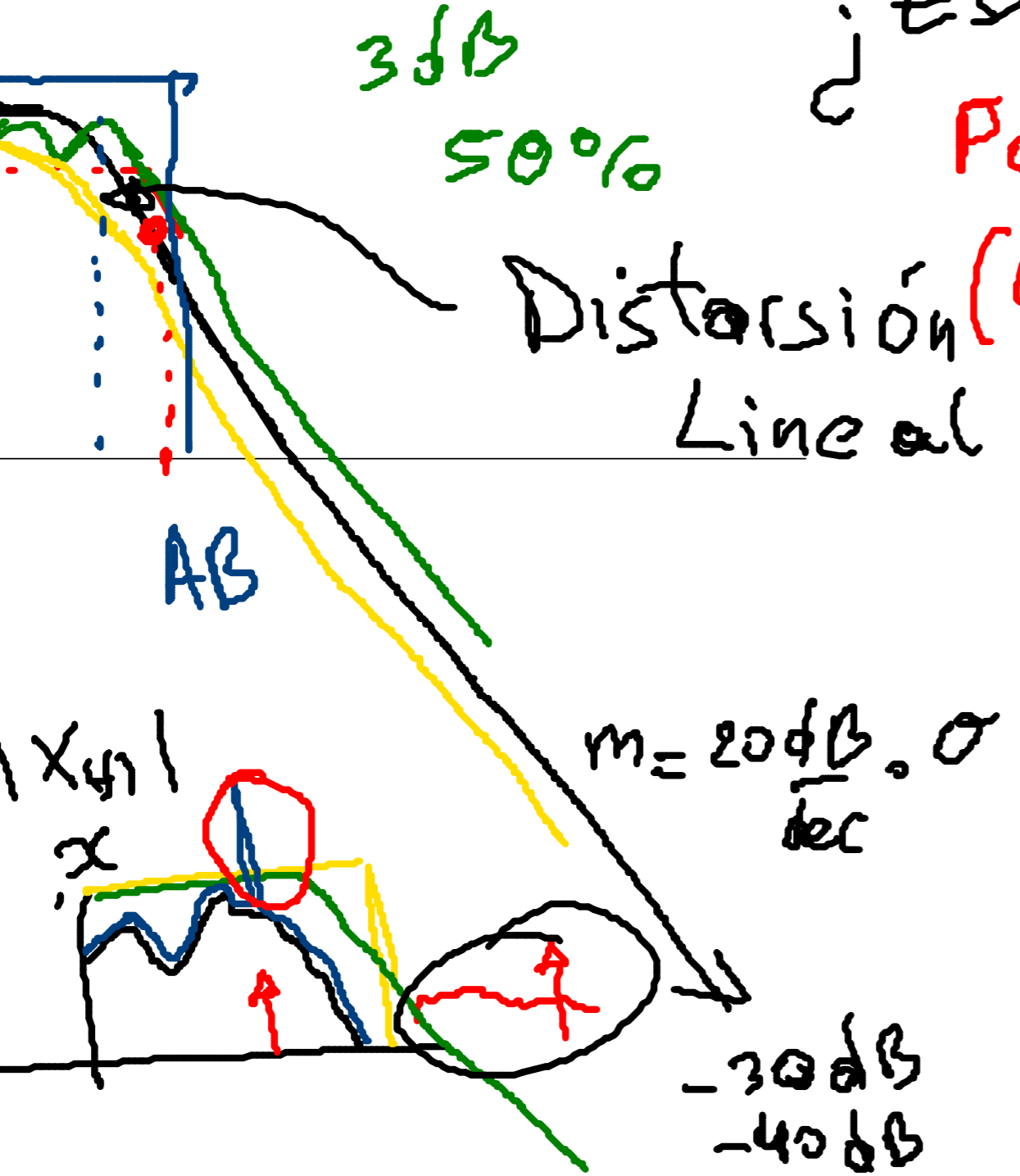
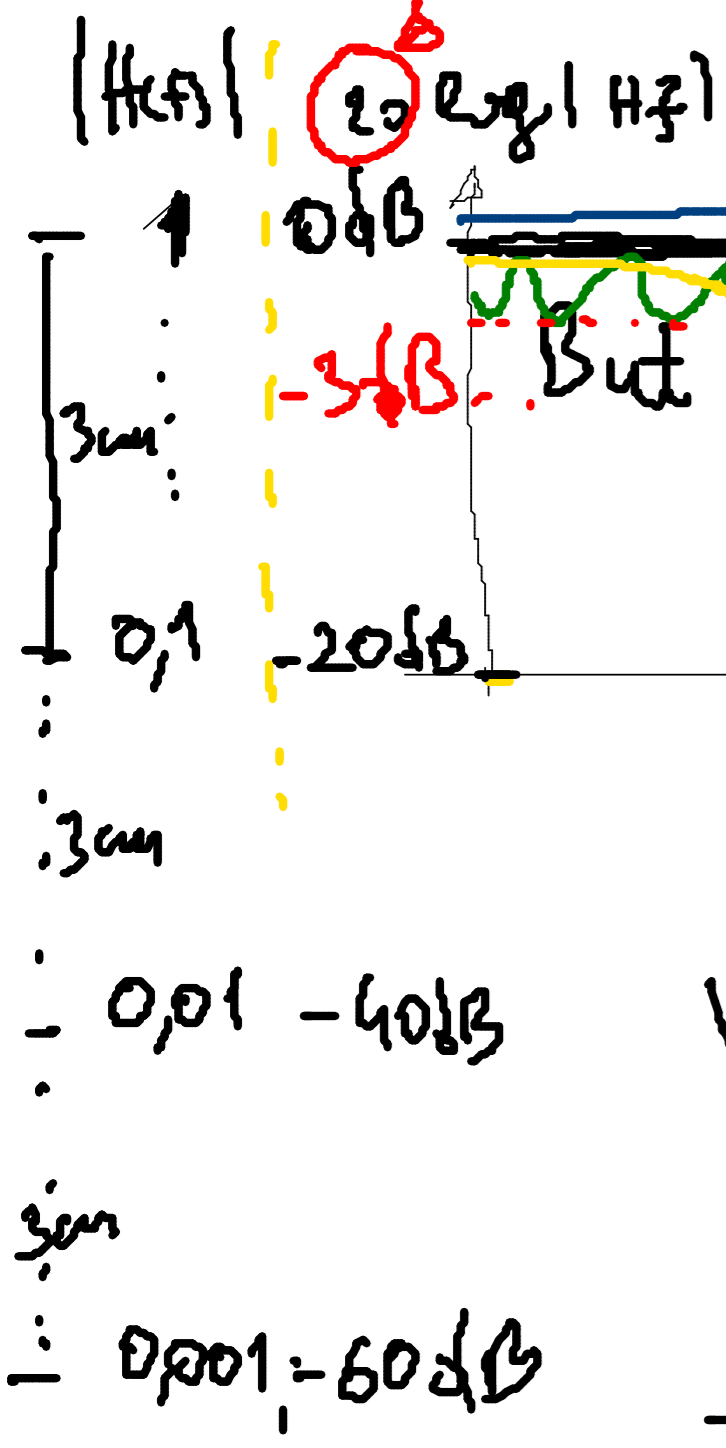
"máxima planicie" → Butterworth  
 Chebyshev  
Bessel → Retardo de tiempo

$$20 \log \left( \frac{V_o}{V_i} \right)$$

Modifican las señales  
 Distorsionan

$$H(f) = \frac{V_o(f)}{V_i(f)}$$

Señal en el tiempo  
 Cambia de objeto.

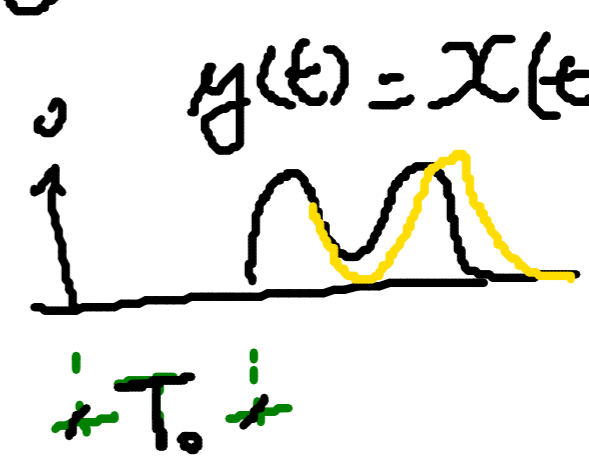
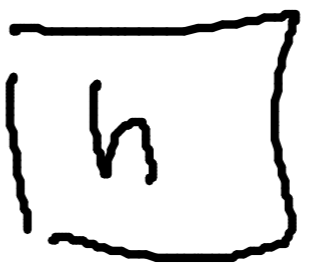
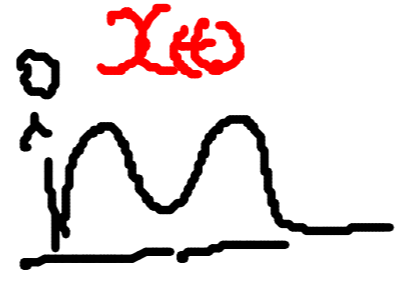
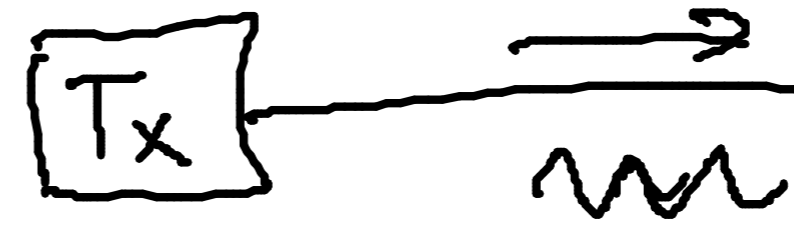


Escales Log?  
 Potencias, Energías  
 (Corrientes)

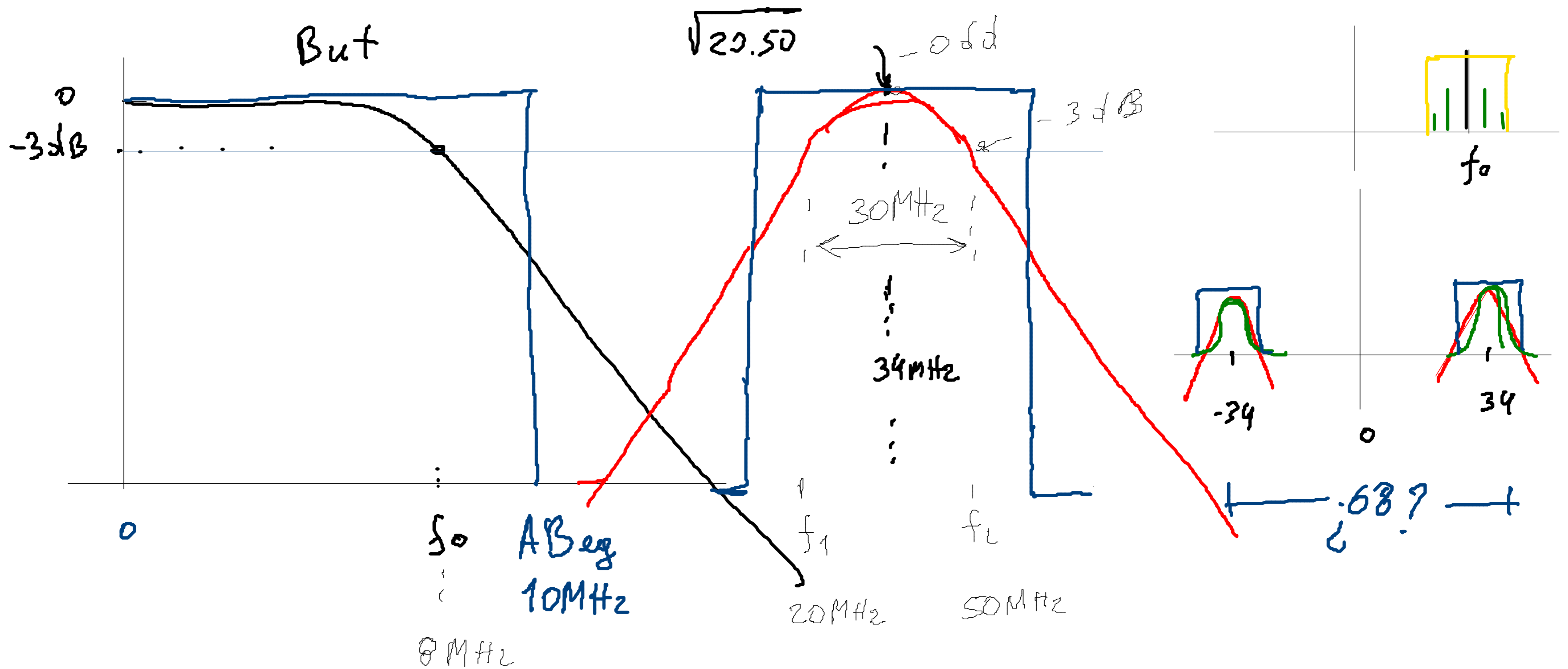
Distorsión Lineal

módulo  
 fase

E



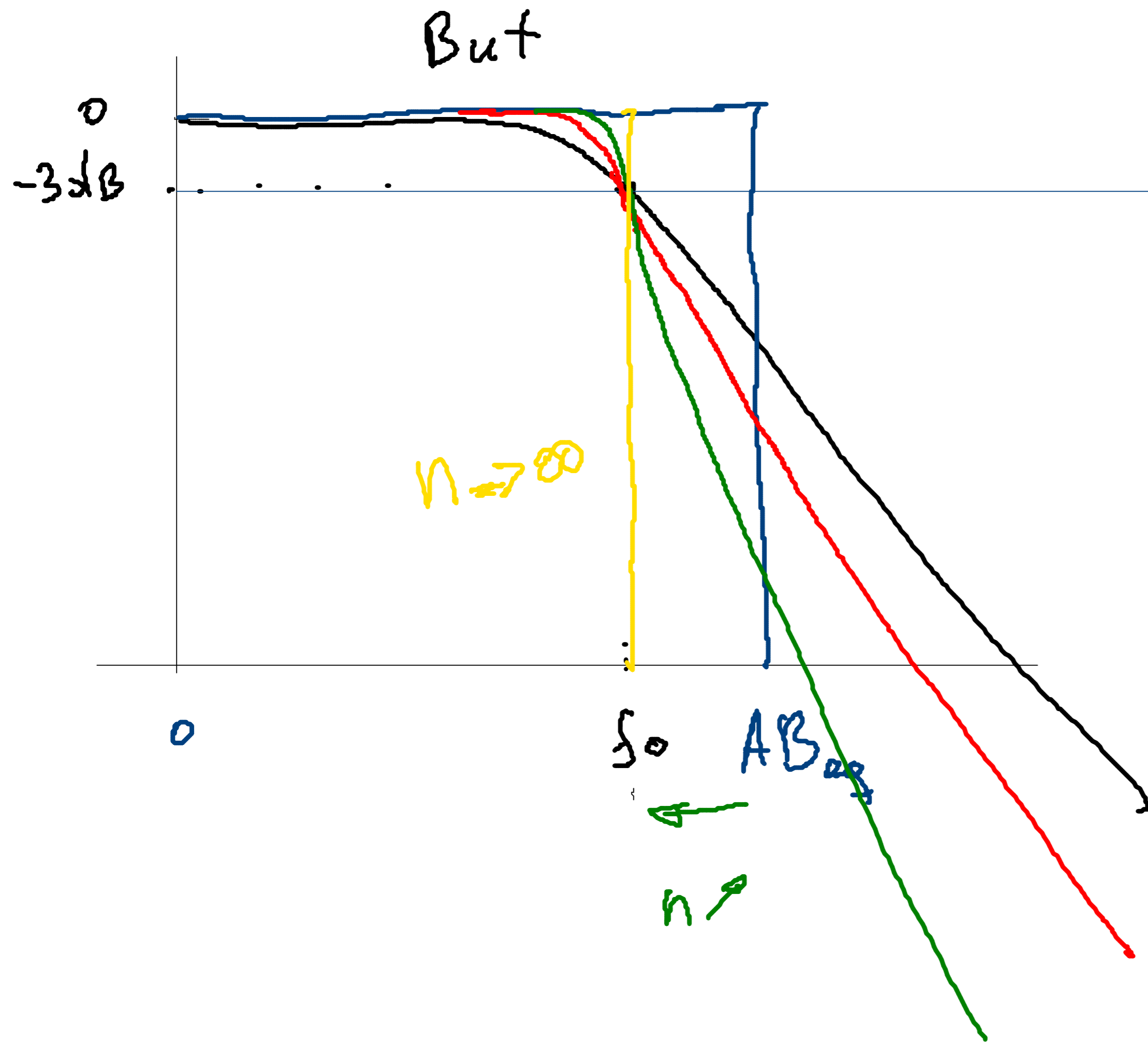
Bessel



¿0 of 16 MHz?

Señal con espectro "Rojo"  
 tiene una AB = 30 MHz (0 = -3dB)

AB equivale  $\neq$  30 MHz  
 $>$  30 MHz



$n$

1

2

3

4

5

⋮

$AB_{\infty} / f_0$

1,57

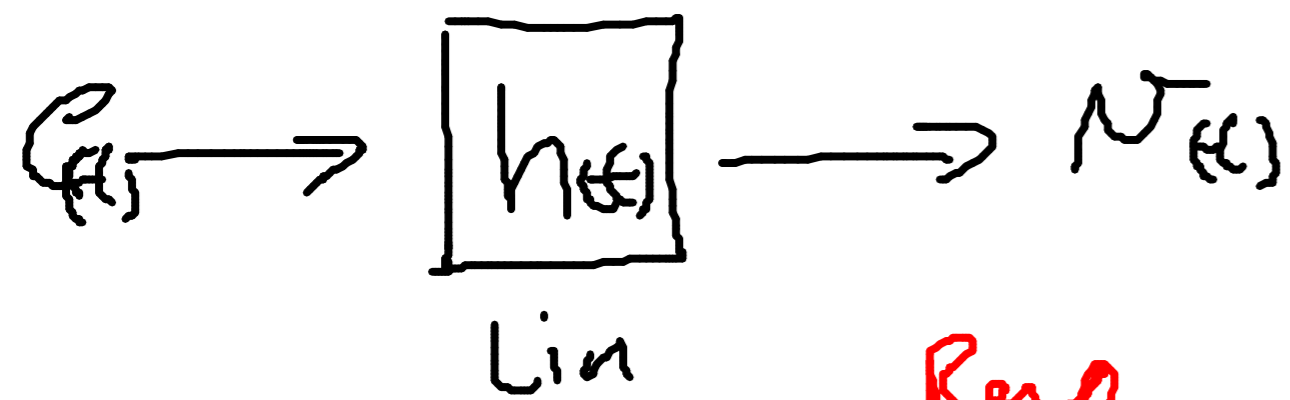
1,22

1,15

1,13

1,11

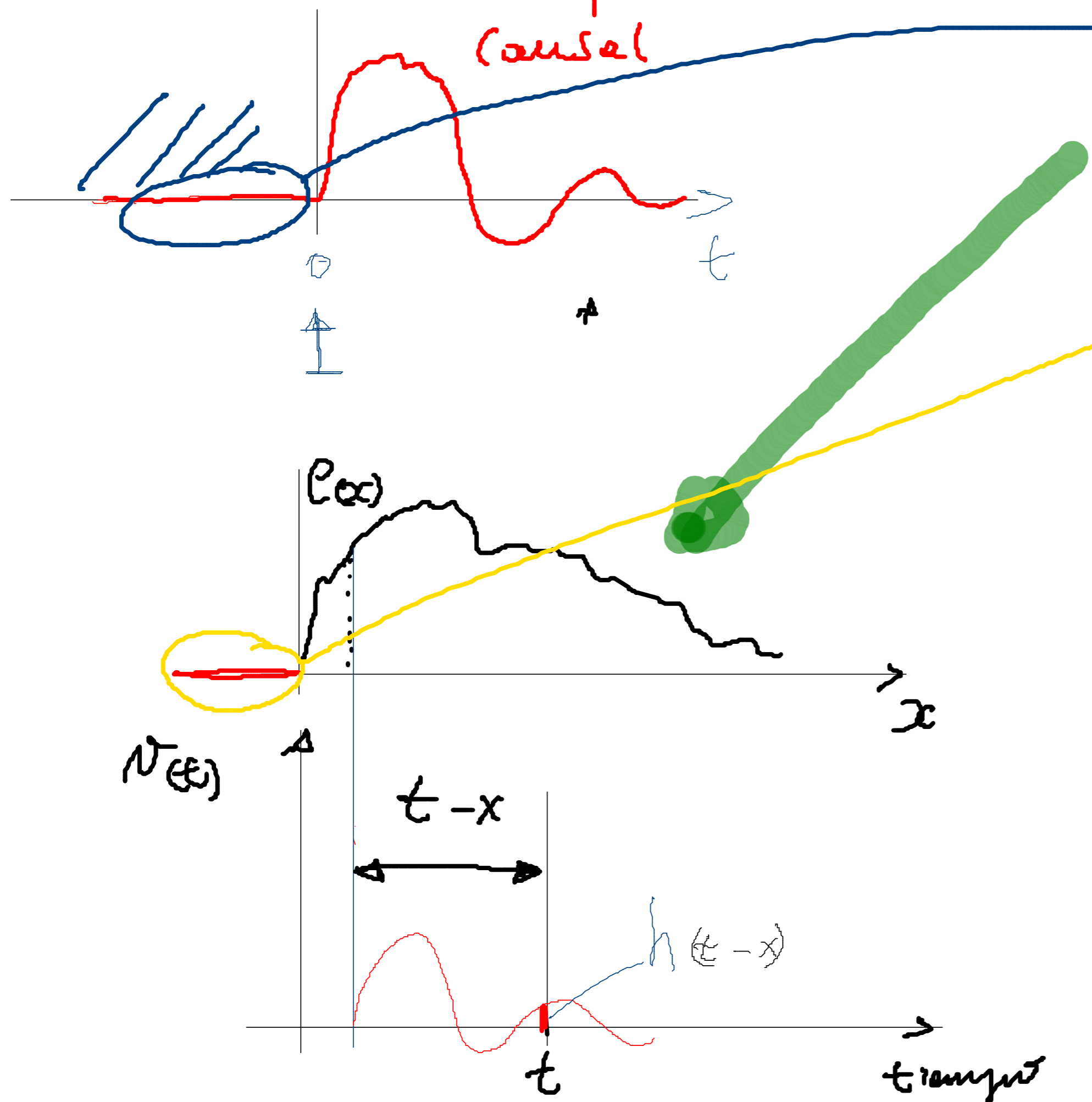
⋮  
⋮  
⋮



$$N(t) = \int_{-\infty}^{\infty} C(t-x) \cdot h(x) \cdot dx$$

dummy

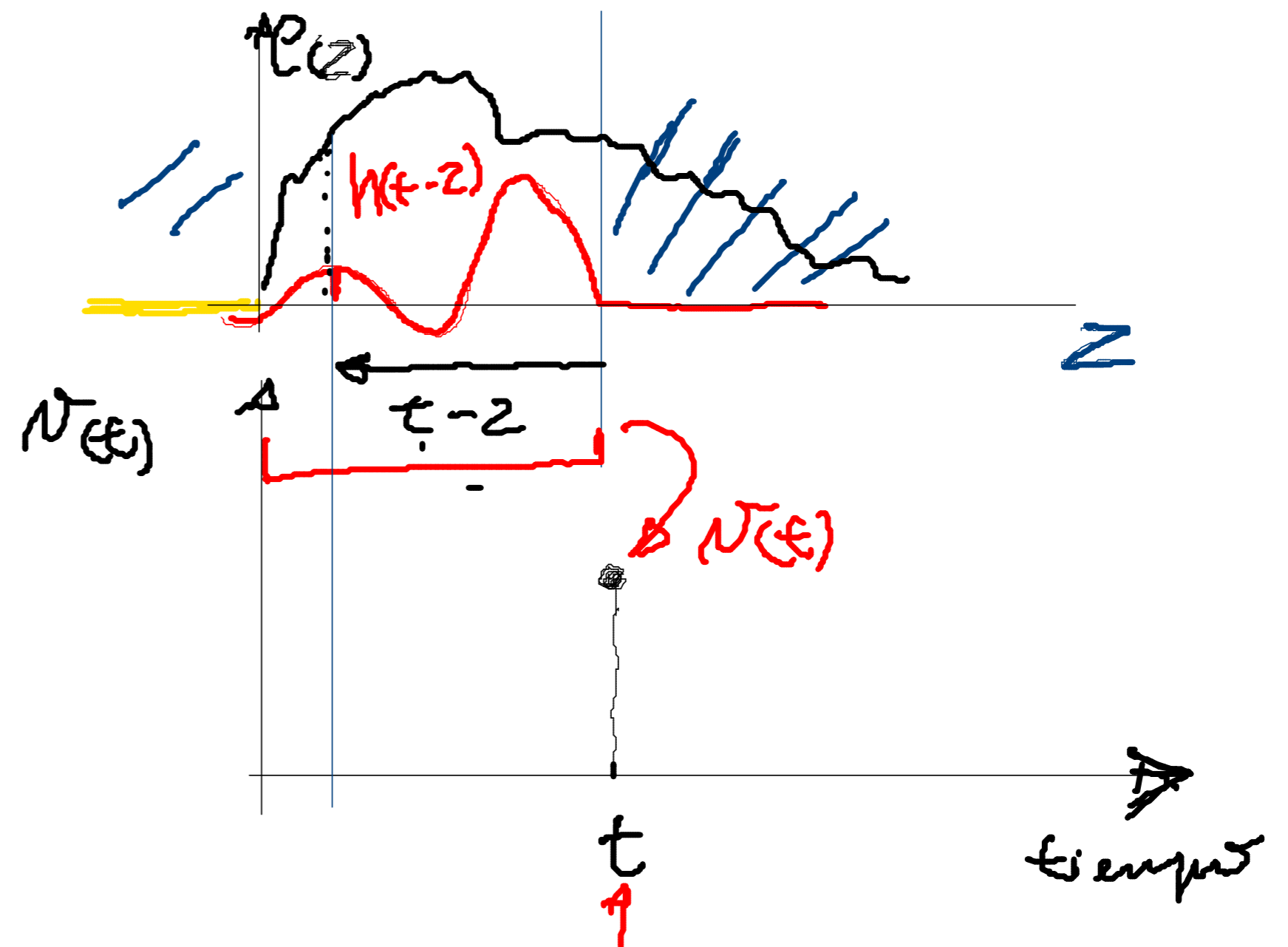
Resp.  
causal

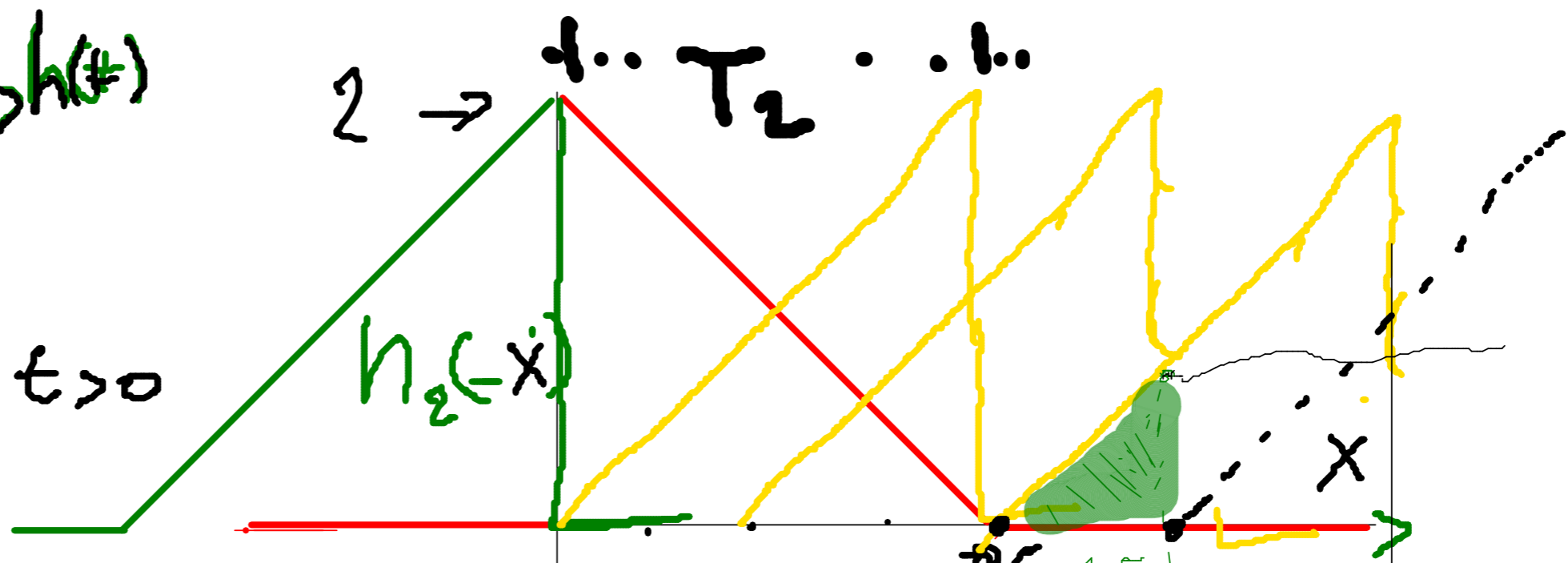
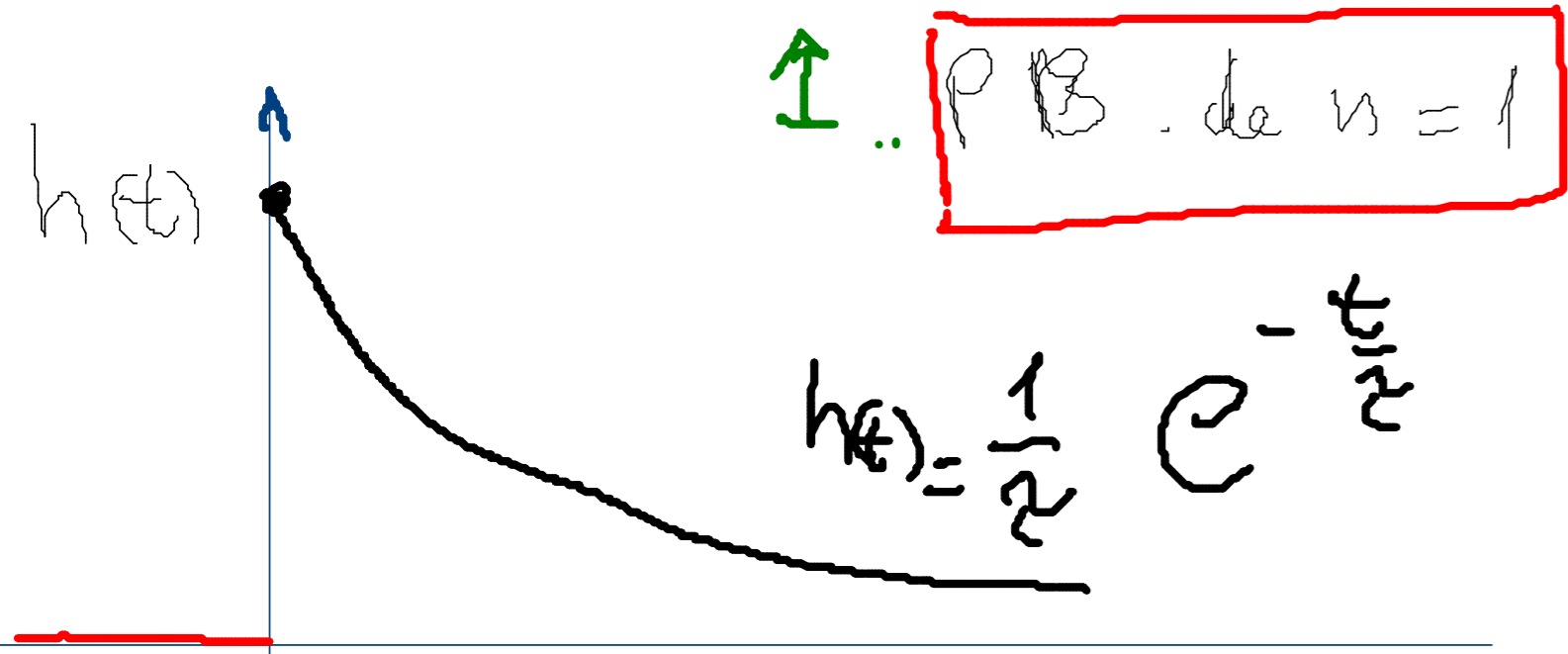


$$z = t - x$$

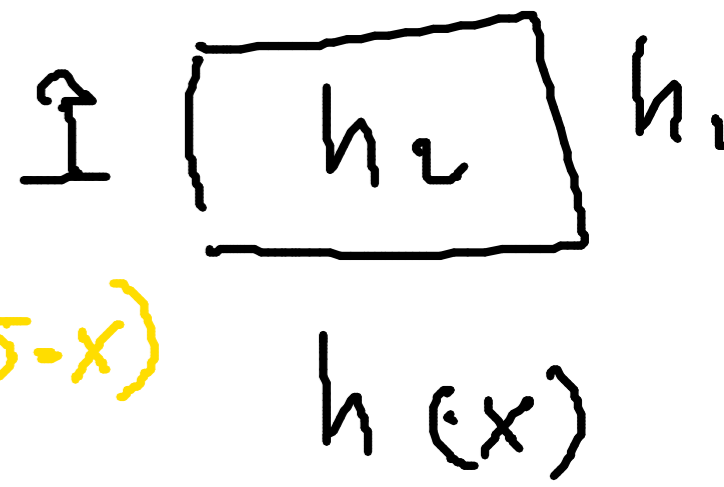
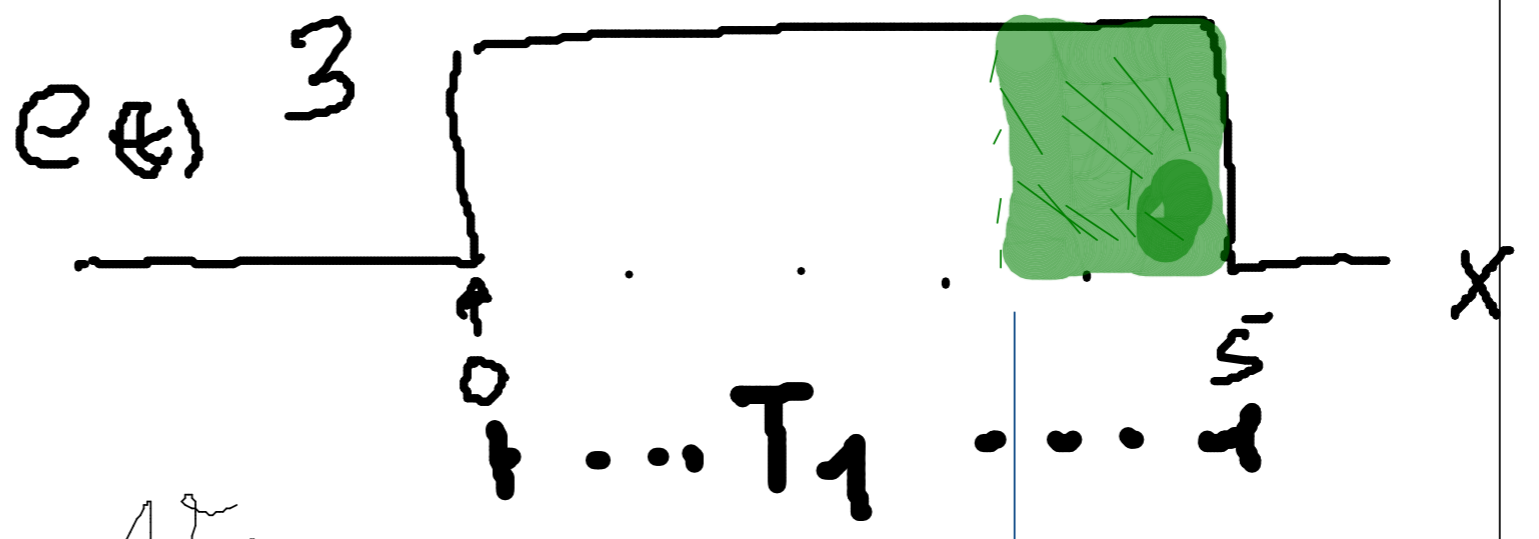
$$= \int_{-\infty}^{\infty} C(z) \cdot h(t-z) \cdot dz$$

$$C(t) * h(t) = h(t) * C(t)$$

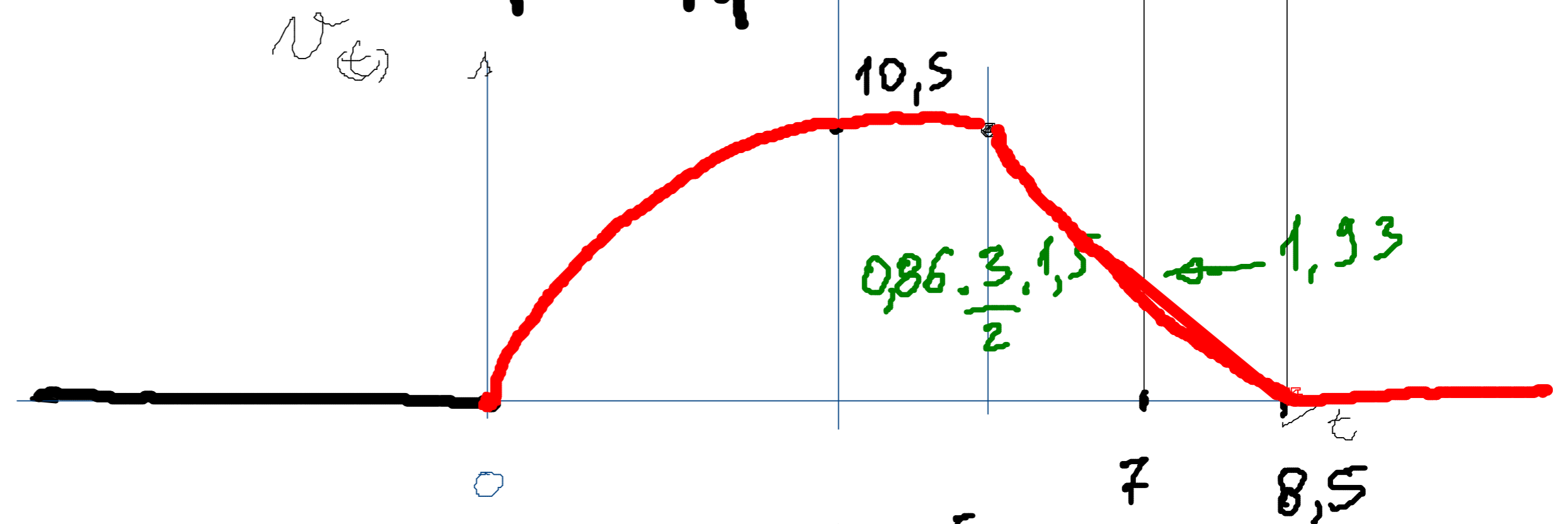




$\frac{1,5}{3,5} \cdot \frac{2}{2} = 0,86$



$N(t) = \int_0^t$



$t=0$

$T_T = T_1 + T_2$