

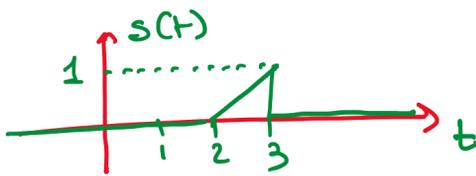
Nota

$$e^{a-jb} = |e^a| e^{jb}$$

modulo reale e positivo

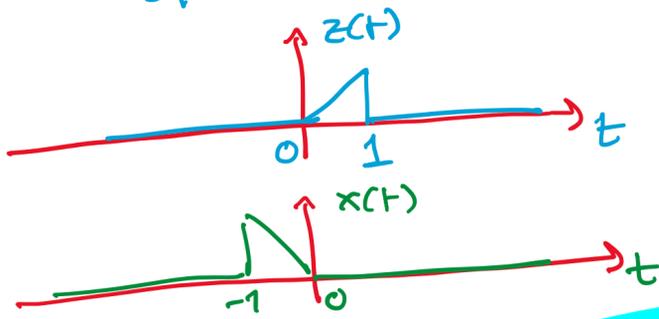
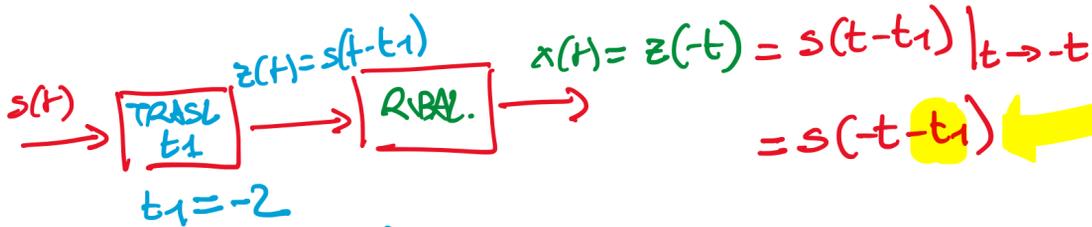
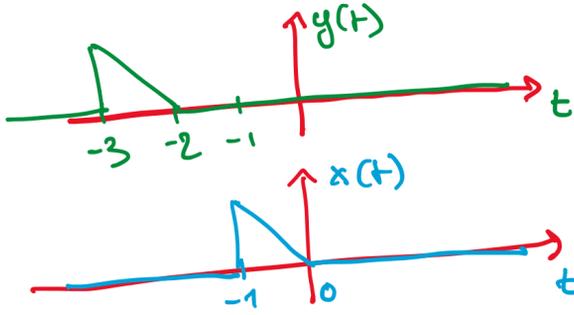
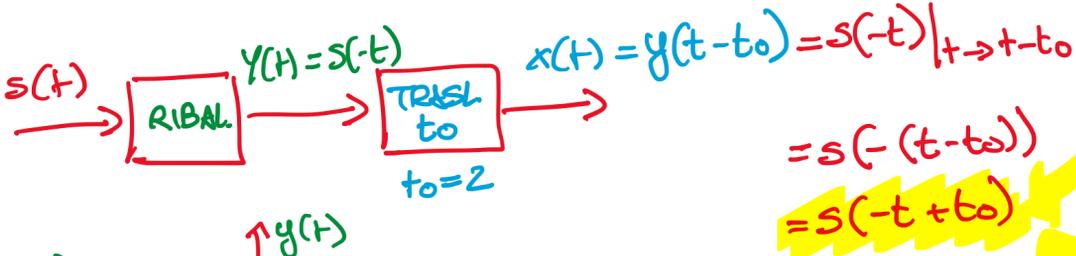
ES1

SIA DATO



DISEGNARE $x(t) = s(-t+2)$

↑ zibaltamento
← traslazione



NOTA

$$s(-2t+1) = s(-(2t-1)) = S_-(2t-1)$$

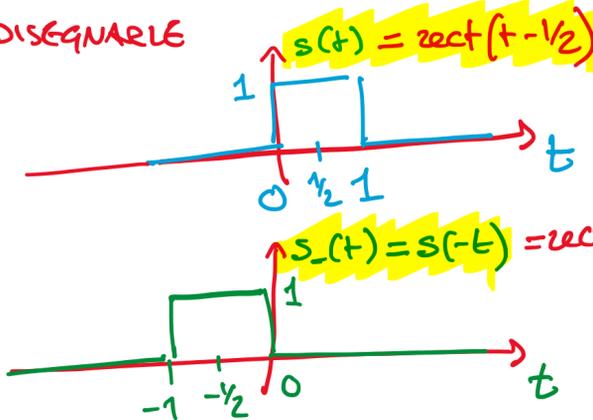
$$= S_-(2(t-\frac{1}{2}))$$

$$= S_-\left(\frac{t-\frac{1}{2}}{\frac{1}{2}}\right)$$

#1 (under the first equation)
#2 (under the second equation)
#3 (under the third equation)

ES2

TROVARE PARTE PARI E DISPARI DI $s(t) = \text{rect}(t-\frac{1}{2})$
E DISEGNARE



DAL DISEGNO

$$s_-(t) = s(-t) = \text{rect}(t - (-\frac{1}{2})) = \text{rect}(t + \frac{1}{2})$$

DALL'EQUAZ.

$$= \text{rect}(-t - \frac{1}{2})$$

PARITA' RECT

$$= \text{rect}(-(-t + \frac{1}{2}))$$

$$= \text{rect}(t + \frac{1}{2})$$

$$S_e(t) = \frac{1}{2} s(t) + \frac{1}{2} s(-t)$$

$$= \frac{1}{2} \text{rect}(t-\frac{1}{2}) + \frac{1}{2} \text{rect}(t+\frac{1}{2}) = \frac{1}{2} \text{rect}\left(\frac{2t}{2}\right)$$

$$= \frac{1}{2} \text{rect}\left(\frac{t}{2}\right)$$

$$S_o(t) = \frac{1}{2} s(t) - \frac{1}{2} s(-t)$$

$$= \frac{1}{2} \text{rect}(t-\frac{1}{2}) - \frac{1}{2} \text{rect}(t+\frac{1}{2}) = \frac{1}{2} \text{rect}(t/\frac{1}{2}) \cdot \text{sign}(t)$$