10:28

Friday, 21 March 2025

Es 1 RICONOSCERE SE L'ESEGUEUTI ESPRESSIONI

SOND CONVOINTION = IN 0450 AFFSOUNTIND

QUALL SIANO I SEGNAL X(+) = y(+)

$$Z(t) = \int_{-\infty}^{+\infty} e^{-i\omega t} \sin(t-\omega) d\omega$$

$$\stackrel{?}{=} x + y(t) = \int_{-\infty}^{+\infty} x(\omega) y(t-\omega) d\omega$$

$$\chi(t) = e^{-|t|}$$

$$y(t) = sin(t)$$

$$x(t) = sim(t+2) \cdot t(t)$$

 $y(t) = e^{t}$

$$= \int_{-\infty}^{\infty} \int_{-\infty}^$$

$$= 1(-(v-t)) = 1(t-u)$$

$$= 1(-(v-t)) = 1(t-u)$$

$$= 1 \text{ once } t > u$$

$$x(t) = e^{t}$$

$$y(t) = sim(t+2) \cdot 1(t)$$

$$1(u-t+a)1(t-u+b)$$

$$1(u-(t-a))1_{-(u-(t-b))}$$

$$1(u-(t-a))1_{-(u-(t-b))}$$

$$1(u-(t-a))1_{-(u-(t-b))}$$

$$1(u-(t-b))$$

t≤o

$$\frac{2(+)}{5} = \frac{1}{5} \frac{1}{5}$$

$$x(H) = sim(1+2)1(H)$$

 $y(H) = e^{t}1(t)$

$$S(t) = \begin{cases} x + y(t) & t \leq 0 \\ + \leq 0 & t \leq 0 \end{cases}$$

$$= \times \text{4y(CH)} \cdot \text{y(CH)}$$

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$$= (\text{m}) = [0, +\infty)$$

$$= \text{y(CH)}$$

$$z(n) = \sum_{k=-\infty}^{\infty} \frac{10(n-k)}{2^{k}}$$

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$$ESS = \sum_{K=-\infty}^{\infty} \frac{1}{2} (x) \frac{1}{2} (n-K)$$

$$= \sum_{K=-\infty}^{\infty} \frac{1}{2} (x-(n-1)) = 10 (n-1-K)$$

$$-\frac{1}{2}\frac{1}\frac{1}{2}\frac{$$

y (n) = 10 (n-1)