Le<sub>10</sub> Thursday, 21 March 2024 08:56 ES1  $X(n) = 9(n) + \frac{1}{2}9(n-1)$  $y(n) = uct\left(\frac{n-1}{3}\right) = uct\left(\frac{t-1}{3}\right)|_{t=n}$ 4) DISEGNARE X(n) & Y(n) B) checouter Z(n)=x \*g(n) c) chacasee v(n) = [x(n-3)] + [y(n+2)]  $\int y(n) \int Ay = 3$ 2(n) = x \* y (n) = \( \int \n (k) \y (n-k) \)  $= \left[ 3(n) + \frac{1}{2} 3(n-1) \right] + 3(n)$ = 8+g(n) + 1 [6(n-1)] \* g(n) LAKARITA' = 8 +9(m) + 2 6 +9 (n-1) PROPE TEASURPHINE = y(n) + 1 y(n-1) EC NEUCEO CONV. Jez=[0,3] ex=[0,1] ey=[0,2] v(n)= [x(n-3)] \*{g(n+2)} = X49 (n-3+2) REGOLA TELSIATIONE = x +g (n-1) = 5(N-1) ES 1 5620S X(+) CALCOUNTE & DISECUARE ECT = X 44 (+) 2ect ( = 2B(+) x(H) = 4.24(t+10) - 2.28(t-8)y(H = A. 2(6-1) 2(H= X\*g(+) = [4.24(++10)-228(+-8)] \*[A82(+-1)]  $=4\cdot[24(1+10)]*[A22(1-1)]$ -2[28(4-8)] + [A 22(4-1)]  $= \frac{4A}{74} \frac{7422}{78} \left( \frac{6+10-1}{10-1} \right)$ Regou DI TRASULTENE 2=4-2 1 24 + 22(+) 128 \*22(+1 (4)s 12 14  $\frac{ES3}{A} = \int_{-\infty}^{+\infty} e^{-i\omega t} \sin(t-\omega) d\omega$   $\frac{2}{2} \int_{-\infty}^{+\infty} x(\omega) y(t-\omega) d\omega$  $X(t) = e^{-|t|}$ y(+) = sim(+) B) 2(+)= \( \frac{t-u}{sin}(v+2) du x(+) = 1(+) sim(++2) y(H=et c) 2(+1= [ = sin(+-u+2) du ? / x(a) y(k-u) du y (+) = 1(Hsin(++2) ESTRUMO =

 $2CH = \begin{cases} 0 & \text{to } 1(t-u) & 1(u) \\ \text{sh} & (u+2) & \text{du} \end{cases}$   $\times (H = 1(H \sin(t+2))$   $y(H) = e^{t} 1(t)$