

Cont. Communica Lista I - Parte II i) fenz ? (i) X[N] xcu] = f(0] . g(x) + f(1] . g(n-1) + f(a) . g(n-2) + f(-1) . g(n-6)) = 2(1.V[n]) + 2.(0,5.V[n-1]) + 2.(0,25.V[n-2]) + 2(0,5.V[n+1] \$) f [n] = 0.3") [n] 8 cm = ft-n] = 0,9". U[-n] x[n] = f[0] · g[n] + f[-,4] g[n-1-17] + f[1] · g[n-1] = 1. (0,9". U[-n])+ 0.9. (0,9" "25. U[-n+1])

SEN-4]

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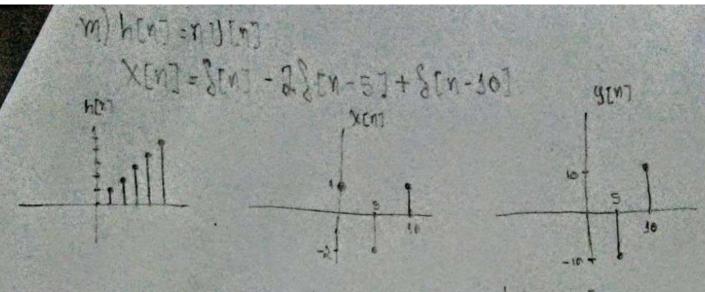
= SEN-4]

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= 2.(28 En]-8 En.4])-(28 En-4]-8 En-4-4])

= 48 [n] - 48 [n-4] + 8 [n-8]



 $g(n) = x(0) + h(n) + x(5) \cdot h(n-5) + x(0) \cdot h(n-10)$ = (n)x(n)) - 2(n-3)(n-5) + 1.(n-10)(n-10)

 $y[n] = h[0] \cdot x[n] + h[0] \cdot x[n-3] + h[2] \cdot x[n-2] + h[3] \cdot x[n-3]$ $+ h[4] \cdot x[n-4]$ $= \sum_{k=0}^{\infty} S[n-5k-2] + \sum_{k=0}^{\infty} S[n-5k-3] + \sum_{k=0}^{\infty} S[n-5k-4]$ $= \sum_{k=0}^{\infty} S[n-5k-2] + \sum_{k=0}^{\infty} S[n-5k-2] + \sum_{k=0}^{\infty} S[n-5k-4]$