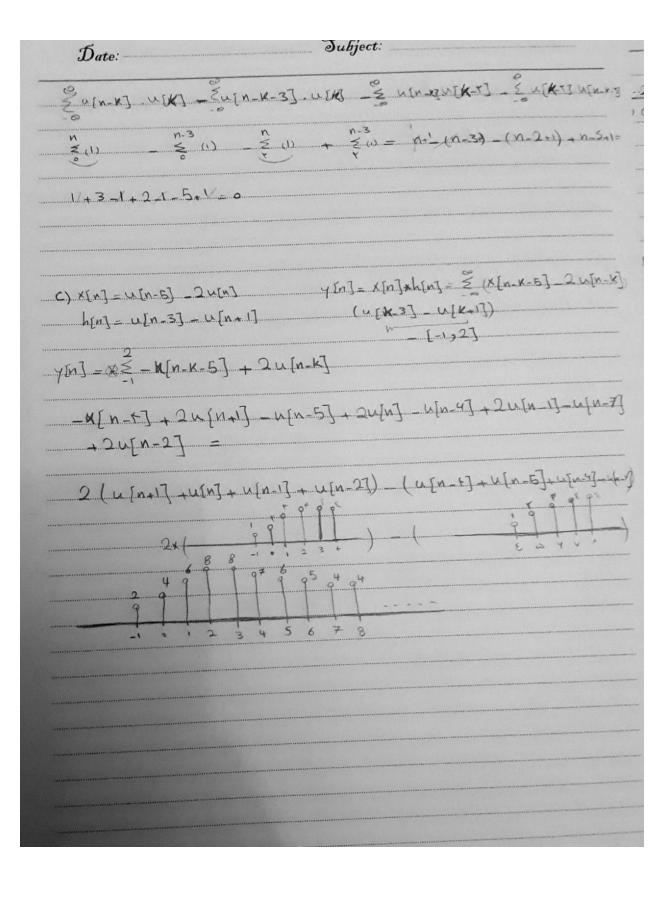
Junjeco

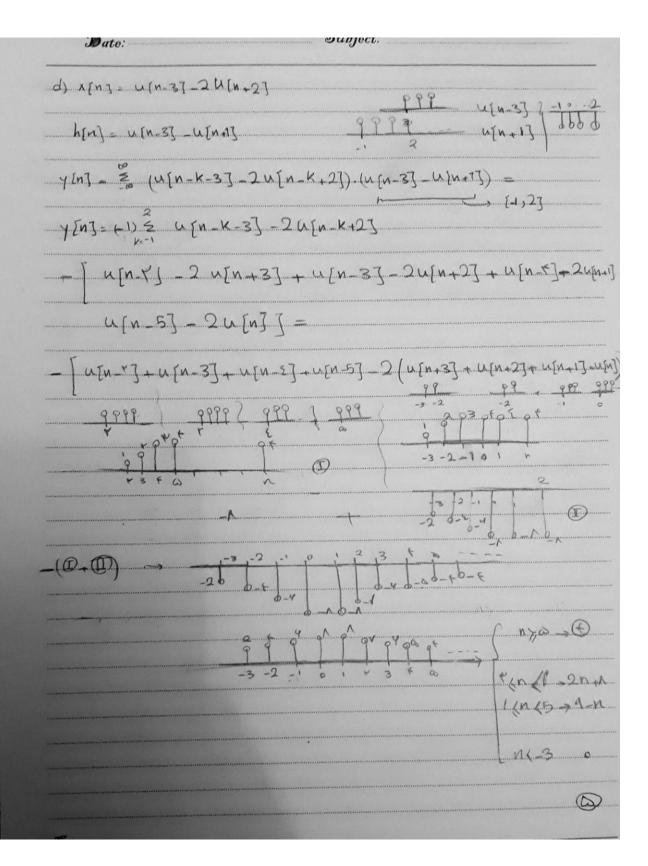
۲) ما مولان سال ما وزر المصورة ومن عام كيد ورند اسان او بول اعلى مولى المساده المولامي المرال البراي والا و و و في المند الله الما و و و المناز الما و و المناز ال

- a) x(n] = u(n] , h(n] = a u(n] ((a(1))
- b) x[n] = u[n] u[n-3], h[n] = u[n] u[n-2]
- () x[n] = u[n-5] 2u[n], h[n] = u[n-3] u[n+1]
- d) x[n] = u[n-3] 2u[n+2] , h[n] = u[n-3] u[n+1]
- a) $\gamma[n] = x[n] + h[n] = \sum_{k=0}^{\infty} x[k] \cdot h(n-k) = \sum_{k=0}^{k} u[k] \cdot a \cdot u[n-k]$
 - " ≥ u[n] u[n-k] a k ;e
 - $= \overset{n}{a} \overset{k=n}{\leq} u[k] \cdot u[n-k] \overset{-k}{a} = \overset{n}{a} \overset{-k}{\leq} \overset{-k}{a} \xrightarrow{(a')^{\circ} (a^{-})^{n+1}} \overset{n}{a}$

b) x(n) = u(n) - u(n-3] , h(n) = u(n) - u(n-2)

u[n] - u[n-3] + u[n-1] - u[n-6] u[n] + u[n-1] - (u[n-3] + u[n-6])





| $h_1(n) = \left(-\frac{1}{\tau}\right)^n u[n]$ $A[n]$ | ا - سورال > : ۲(س) - ق سر (۱۱ م س ۱۲ م س ۱۲ م س ۱۳ م س |
|--|--|
| hr[n] = u[n] + 1 u[n-1] | |
| a) y [n] = w[n] + h, [n] | $y[n] = \frac{2}{k-2} \left(u[k] \times h_1[k] \right) - h_1[n-k]$ $y[n] = \frac{2}{k-2} \left(\frac{2}{k-2} h_1[k] \cdot u[k-1] \right) - h_1[n-k]$ |
| w[n] = x[n] *h,[n] | « h[t] u[k-t] = ≥ (-+) u[t] = u[k-t] |
| b) y[n] = g[n]*h,[n] | ====================================== |
| 9 [n] = x[n] * hr[n] | = (1-(-1)n+1-k) (u[k]-1/u[k]-1 |
| = 2 } (1- (=) #11-K | * * * () (-) NA-K X 1 |
| + + + + (1 - (=) n-K+1 | 1 8 (1-(=)) -K+1 = 1 (1-(=)) + 1 (1-(=)) -1 |
| (1-(幸)^*) + 2(1) ・ ((マ)^*) + 2(1) | - (字) 1 (字) - ((字)) - () - 1 + (字) 1 + (z) |
| | [n-k] - \frac{1}{2} \(\mu_{1} \) \(\lambda_{1} |
| (元) 多(1-(元)×1) - 3 カー(元)×1) - 3 |)+3(1-(空)**)- |
| ラー (-1 ×+1) (-1 ×+1) (-1 ×+1) | $=\frac{2}{3}(1-(\frac{-1}{2})^{n+1})=\frac{2}{n}(1-\frac{1}{3}(\frac{-1}{2})^{n+1})$ |
| $\begin{array}{cccc} & & & & \\ & $ | = 3 (2) +2 3 (2) (2) |
| Kian 172 | 1 (2) 1-3 (2) 1-3 (2) 1- |

161 = = g [k] . h, [n-k]

~ 61 + 0140

g [n] = = u[n-t] - h. [n-t] = = u[n-t] - h. [t] = = u[n-t] - u[t] + = = u[n-t] - [t] = = u[n-t] - [t] = = [t] - [t

 $\frac{1}{2}(1) + \frac{1}{2}(1) = 1 + \frac{2}{2}(1) + \frac{1}{2}(1) = 1 + \frac{3}{2}(1) =$

4[1] = = (-1) Ku[M] 1+3(N-K) = = (-1) K+ (-1) K13(N-K)

\$ (=)x + 3n \$ (=)x -\$ (=)x. (-x)

= 1 = + = n x 2 = = (=) x (-1) x (-1) = 2 + n - = (=) x (-1) x (-1)

 $u = \frac{8}{8} u[n+t] \cdot (\frac{1}{7})^{\frac{1}{7}} u[t] = \frac{8}{8} (\frac{1}{7})^{\frac{1}{7}} - \frac{1-(\frac{1}{7})^{\frac{1}{7}}}{1+\frac{1}{7}} = \frac{3}{3} (1-(\frac{1}{7})^{\frac{1}{7}})^{\frac{1}{7}}$

\$ 2 (1-(=)nx+1 (u[n]+ = u[n-1])

= 2 LK - = 3 (-1) - K+1 LK + = 3 × JULK 13 - 3 (=) - X+1 LK1

 $-\frac{8}{4}\frac{2}{3} - \frac{2}{3}(\frac{1}{2})^{1/2} = \frac$

1800 34 15

(X(n] + h.[n]) + h. (n] = (X[n] + h. (n]) + h. (n] = 6660 / 5670

