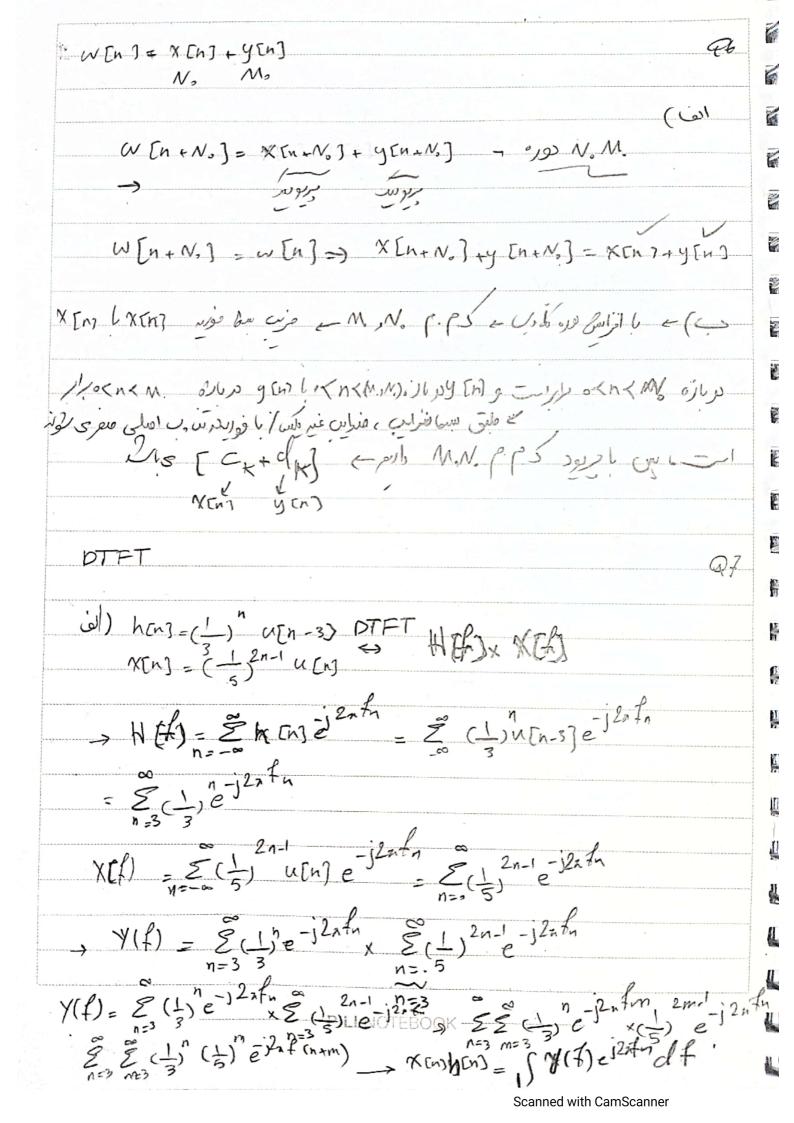
.21 $\chi[n] = \sum_{k=0}^{\infty} 2^{-\lfloor n-3k\rfloor}$ Px = < 1x[n]12 = lim 1 2 | x[n]12
N = 00 2N+1 n=-N = lim 1 5 | 5 2 - | n - 3K1 | 2 N - 00 2N+1 n= N K= 00 $=\lim_{N\to\infty}\frac{1}{2^{N+1}}\sum_{n=-N}^{\infty}\frac{1}{2^{N+2}}\frac{1}{2^{N+2}}\frac{3}{2^{N+2}}\frac{1}{2^{N+2}}\frac{3}{2^{N+2}}\frac{1}{2^{N+2}}\frac{1}{2^{N+2}}\frac{3}{2^{N+2}}\frac{1}{2^{N$ $\sum_{K=-\infty}^{\infty} \frac{2^{-|n+N-3k|}}{2^{-|n-3k|}} = \sum_{K=-\infty}^{\infty} \frac{2^{-|n-3k|}}{2^{-|n-3k|}}$ $N \rightarrow 3P \rightarrow \frac{2^{\infty} - |n + 3p - 3k|}{8 - \infty} = \frac{2^{\infty} - |n - 3k|}{8 - \infty}$ = -3((K=13)K=-3(P=K) 5/6/PD , N=3) (iu) Q2 y[n] = X[n] & [n-3K] 8 dis: 4, [n] = x, [n] & S [n-3k] y₂[n] = x₂ [n] € 8[n-3K] = 1 (les) y, [n] - (x, [n] + x [n]) = 8 [n-3/5] 9 [m] = 9, [m] LHOYEBERS

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-, y [n] = x[n] & S[n-3K) y [n-N.] = x[n-N.] & [n-N.-3K] كفير برير مازيك (ليشفت) -> y[n] = x [n-N, '] & S[n-3K] مع سر عنیر n نیزوات در خاص خالری در حاصله دار ds -> -in - EX[3K] - n 10 11 (0.00) => [Tor or = "="] (6 2) - X[n] / (6 2) 2621.1155 h[n] = (1-n)(1) u[n+1] g x[n] = (1) (w[n] (= @3 y[n] = & x(k) h[n-k] = & x[n-k] h[n] $Y[n] = \sum_{K=\infty}^{\infty} (\frac{1}{3})^{\frac{1}{2}} (u[K] - u[K-5]) \times (1-n+K)(\frac{1}{2})^{\frac{1}{2}} u(n-K+1)$ $(\alpha \times 5)$ $(\alpha \times 5)$ $(\alpha \times 5)$ 1.5K<5 n >,4 1 = 5 9[n] = \$67 h[n] + 367 h[n-1] + x/2] h[n-2] + x/3) +x517 h [h-41] LHO 8 (5) 4 [n-5]

CK = Non Flor X [n] E j2nfokn 7 X (n7 - Ecke j2nfon X [n] = 1 [Sin((2 + 3)h) sin(+ - 7)h) 3 1 2 X 12 X 5 29 = N N, = 7, 05K36 , CK 5 + 3, Sin(3) Q5 $X[n] = \underbrace{\mathcal{E}}_{K} c_{K} e^{j2\pi f K n} = \underbrace{\mathcal{E}}_{K} c_{K} e^{j2\pi f K n}$ 1+ 3 Sin (o)es 1+3 sin (3)e + $1 + 1 + \frac{3}{4} \sin(\frac{\pi}{8})e^{j2afn} + \frac{3}{4} \sin(\frac{\pi}{4})e^{j4afn} + \frac{3}{4} \sin(\frac{3\pi}{8})e^{j2afn}$ 4 1 + 3 SM (#) e 1 8 x 6 n + 1 + 3 SM (5 x) e 1 + 1 3 SM (67) e +1, 3 sin (72) e luxfn



y [n] = (= (1) (1) m = j2 x (m+l) j2 x fn ff $\sum_{K=-\infty}^{\infty} \frac{1}{K} \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{7}) \Rightarrow \lambda^{2} \sum_{K=-\infty}^{\infty} \frac{\sin(\frac{\pi K}{5})}{\pi K} \times \sin(\frac{\pi K}{5})$ $\sum_{K=-\infty}^{\infty} \frac{1}{K} \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5}) \times \sin(\frac{\pi K}{5}) \times \sin(\frac{\pi K}{5})$ $\sum_{K=-\infty}^{\infty} \frac{1}{K} \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5}) \times \sin(\frac{\pi K}{5}) \times \sin(\frac{\pi K}{5})$ $\sum_{K=-\infty}^{\infty} \frac{1}{K} \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5}) \times \sin(\frac{\pi K}{5}) \times \sin(\frac{\pi K}{5})$ $\sum_{K=-\infty}^{\infty} \frac{1}{K} \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5}) \times \sin(\frac{\pi K}{5}) \times \sin(\frac{\pi K}{5})$ $\sum_{K=-\infty}^{\infty} \frac{1}{K} \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5}) \times \sin(\frac{\pi K}{5}) \times \sin(\frac{\pi K}{5})$ $\sum_{K=-\infty}^{\infty} \frac{1}{K} \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5}) \times \sin(\frac{\pi K}{5})$ $\sum_{K=-\infty}^{\infty} \frac{1}{K} \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5}) \times \sin(\frac{\pi K}{5})$ $\sum_{K=-\infty}^{\infty} \frac{1}{K} \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5})$ $\sum_{K=-\infty}^{\infty} \frac{1}{K} \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5})$ $\sum_{K=-\infty}^{\infty} \frac{1}{K} \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5})$ $\sum_{K=-\infty}^{\infty} \frac{1}{K} \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5})$ $\sum_{K=-\infty}^{\infty} \frac{1}{K} \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5})$ $\sum_{K=-\infty}^{\infty} \frac{1}{K} \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5})$ $\sum_{K=-\infty}^{\infty} \frac{1}{K} \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5})$ $\sum_{K=-\infty}^{\infty} \frac{1}{K} \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5})$ $\sum_{K=-\infty}^{\infty} \frac{1}{K} \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5})$ $\sum_{K=-\infty}^{\infty} \frac{1}{K} \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5})$ $\sum_{K=-\infty}^{\infty} \frac{1}{K} \sin(\frac{\pi K}{5}) \sin(\frac{\pi K}{5})$ $\sum_{K=-\infty}^$