1727. 1.3

(an Xo(t)= 305(5++7), T= 5 2.

(b) X(n)=3(06(5n+量) (N+) (不是

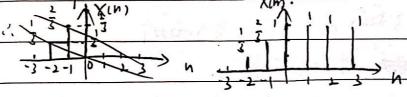
(c) X(n) = 1e^{j(方-1)} がも17 に不足.

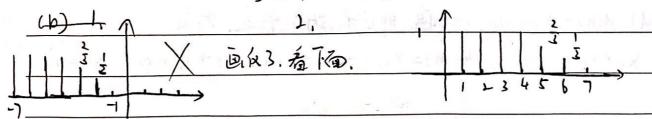
(d) X(n)= (以(量)(以(量n) = 立((以(量(T-1)n)+(以(量(T+1)n)),不是.

(e) X(n) = (以(王n)-sin(量n)+3cus(中n+丁), N= 前8=16,足.

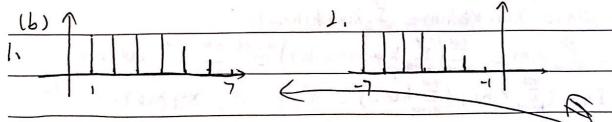
194. 2.1

(a) X(-3) = 0, $X(-1) = \frac{1}{2}$, $X(0) = \frac{1}{2}$ $X(0) = \frac{1}{2}$ X(1) = X(1) = X(1) = X(1)





(色) X(-114)=X(-(11-4)). 州花右档.



(c) X(-h+4) = X(-(n-4)), 門先延时4, 再久好, 国象如 (b) 41

(d) ①先近中, 成转. ①先延-1, 成转. (KW) 提前)

(e) X(n) = = = \(\delta(n+2) + \frac{1}{2}\(\delta(n+1) + U(n) - U(n-4)\).

195. 1.5 能量的主证明过程完全相同 $E = \sum_{n=1}^{\infty} |X(n)|^2 , X(n) = \sum_{n=1}^{\infty} |X(n) + X(-n)| + \sum_{n=1}^{\infty} |X(n)| - X(-n)|$ En = 1 = [X(h) - X(-n)] = 4 = X(n) - 1 X(n) X(-n) + X(-n) Ee= 4= Xin)+ 1 Xin) Xin)+ Xin) + Xin) E = 1 1 X(h) + 1 X(K) P95. 2.7 (a) YIM = CUST XIM], 静态, 排纸性, 因果, 稳定, 时渡 * XI(n)= X(n-N), Y,(n) = (SLX/n)] = (SLX(N-N)) = Y(n-N) (b) yin; 然以,包含知X(n+1),和历史输入无穷个 : 戏吃,好性,非母果、梅庭、时不变、不能定、 (d) y(n)= X(-n+2). 纠性,非国呆,改态,能走、时变. X.(n) = X(n-N) . y.(n) = X.(-h+2) = X(-h+2-N) + y(n-N) = X(-N+2-N) P97. 216 (a) y(n)= X(n) * bh(n) = = X(k) h(n-k). Iy = 1 y(n) = to (1) X(k) h(n-k) = to X(k) h(t) Ix In=(To X(n))(to h(n))= 至于 h() 大成X(i). (b) (2) · X(h)=h(n)={1,2,-1}, y(n)= {1,4,2,-4,1}. Ix In=4, In=4 (4) , XINI= 11, 2, 3, 4,5} hin)= ? []. XINIX hiniz Kin Y dem = Xin]. 显然 yin = Xin1. Iy=Ix In=Ix (b) y(n)= {0,0,1,-1,2,2,1,3}. Iy=8=Ex-In=8

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