DSP UESTC 4005: Homework #chapter 5

Due on: April 28 2019 at 23:59:59

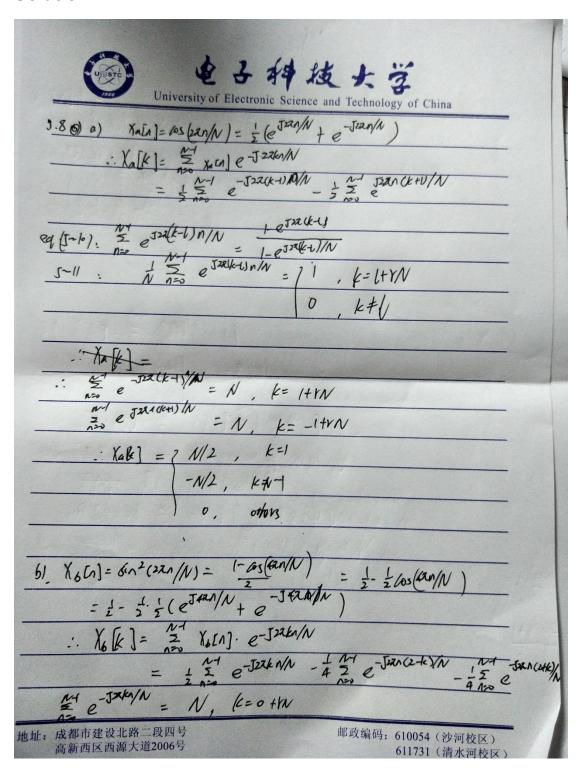
Instructor: Wenhui Xiong

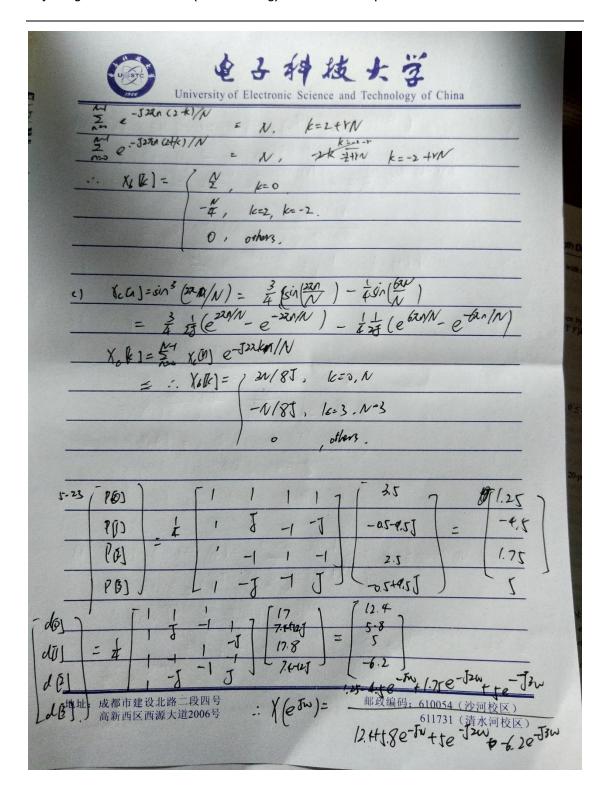
Jiayi Feng

Problem 5.1

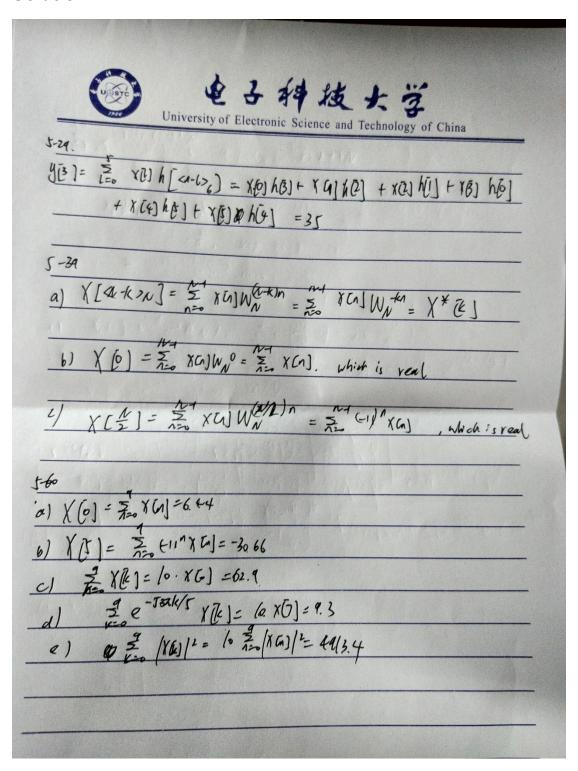
- WEN NEWT (-1)
5.1 g [n] = = P[v] h [n-r]
RENJ = P [n+ KN] KEZ PG) = PG [n+ KN].
: 8[n+kN] = 2 7[r]. [n+kN-r]
since fich is period sequence of period N - fich = fich-r] = fich-rt kn)
- AFEN = PEN-V] = PEN-V+ KN] - 3 [N+KN] = FEN REV) PE [N-V] = JEN] Hence, yten) is also paried in n with a period N
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Problem 5.8&5.23

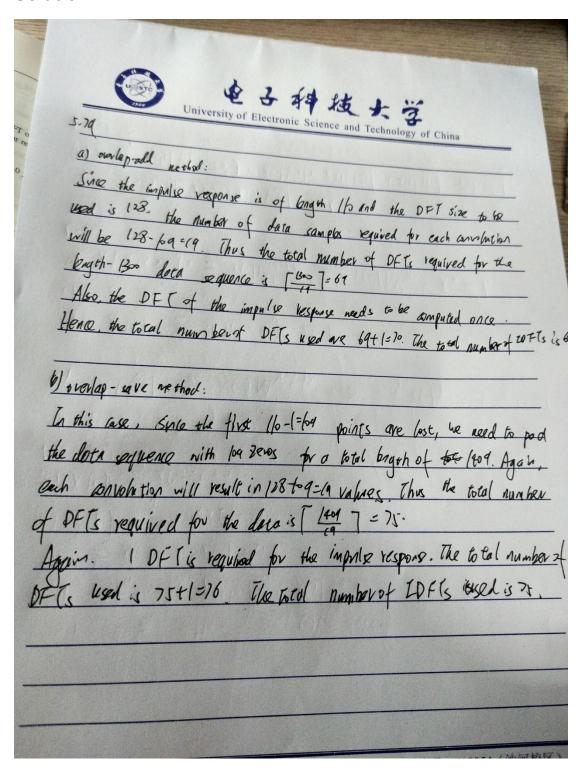


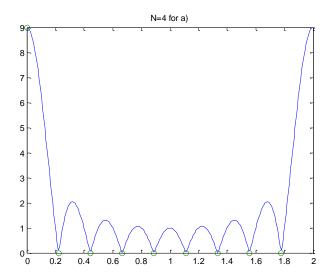


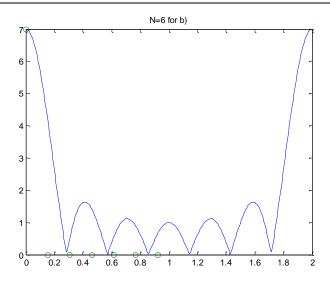
Problem 5.29&5.39&5.60

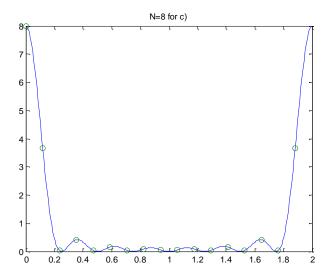


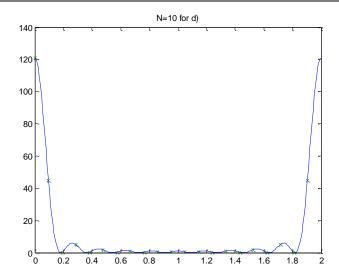
Problem 5.79

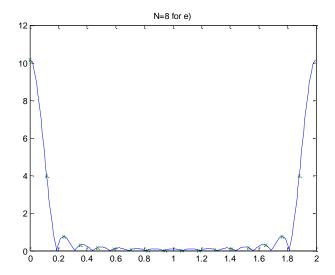


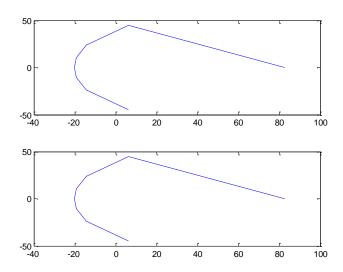


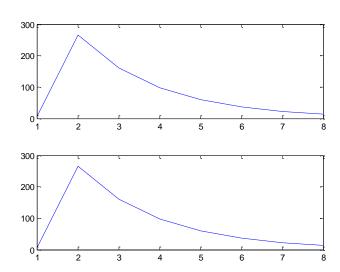


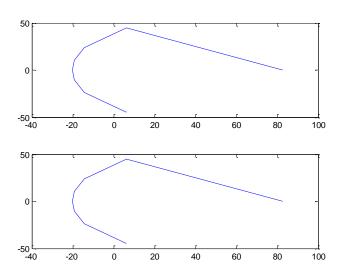


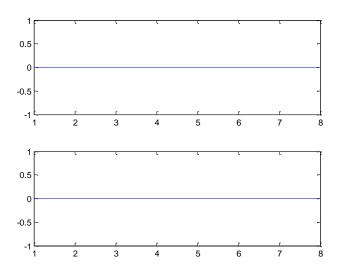


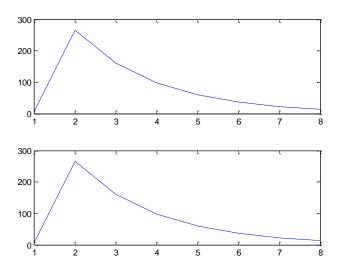


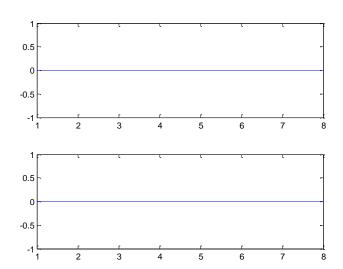












Problem M5.8

Solution:

6.4400 -30.6600 62.9000 -91.5000 - 0.0000i

4.9134e+003