Discrete Time Signals and Systems

Elec 342

Lab Experiment #3

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4017 5600

Section MK-X

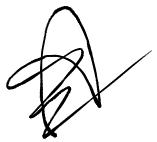
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“I certify that this submission is my original work and meets the Faculty’s Expectations of

Originality.”

**1) Objectives**

**2) Theory**

**3) Tasks, Results and Discussion**

Task 1:

Results 1:

Discussion 1:

Task 2:

Results 2:

Discussion 2:

Task 3:

Results 3:

Discussion 3:

Task 4:

Results 4:

Discussion 4:

Task 5:

Results 5:

Discussion 5:

Task 6: Linearity

Results 6:

Discussion 6:

Task 7: Odd or Even

Results 7:

Discussion 7:

Task 8:

Results 8:

Discussion 8:

BONUS TASK:

**4) Questions**

Question 1 a):

Question 1 a): Results

Question 1 b):

Part I - Question 1 b): Results

Question 2 a):

Question 2 a): Results

Question 2 b) i):

Question 2 b) i): Results

Question 2 b) ii):

Question 2 b) ii): Results

Question 3 a):

Part I - Question 3 a): Results

Question 3 b):

Part I - Question 3 b): Results

Question 3 c):

Question 3 c): Results

**5) Conclusions**

**6) Appendix**

There will be no appendix for this experiment. All source code was placed accordingly in their section above.

**7) References**

ELEC 342 Lab 3: The Discrete Time Fourier Transform and Introduction to Simulink

<https://users.encs.concordia.ca/~realtime/elec342/manuals/lab3.pdf>