ECE551 - Homework 3-4

Khoi-Nguyen Mac

September 20, 2016

1 Deterministic Correlation Sequences

(a)

(b)

(c)

2 Studying yet another Linear System

(a)

(b)

3 DTFT Affairs

(a)

(b)

4 The Z-Transform of Autocorrelation

(a)

(b)

5 Some DFT Properties

(a)

(b)

(c)

(d)

(e)

6 Z-Transform of Downsampled Signals

7 Interchange of Multirate Operations and LTI Filtering

(a)

(b)

(c)