Name: _	
Student ID: _	
Signature:	

CITY UNIVERSITY OF HONG KONG

Semester A 2015/2016

EE3210: Signals and Systems

Quiz 1

Time allowed: 15 minutes
Total number of problems: 2

3. Total marks available: 12

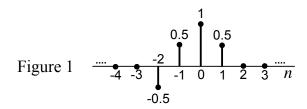
4. This paper may not be retained by candidates

Special Instructions

- 5. This is a closed book exam
- 6. Attempt all questions from each problem

Problem 1: (9 marks)

A discrete-time signal x[n] is shown in Figure 1 below.



Sketch and label carefully each of the following three signals:

- (a) x[-n] (3 marks)
- (b) x[2-n] (3 marks)
- (c) x[2-2n] (3 marks)

Problem 2: (3 marks)

Show that if a discrete-time signal x[n] is an odd signal, then x[0] = 0.