



ISRA UNIVERSITY

Islamabad Campus

Program: BSC & MSC (Electrical)
Semester - Fall 2018

Signal & Systems

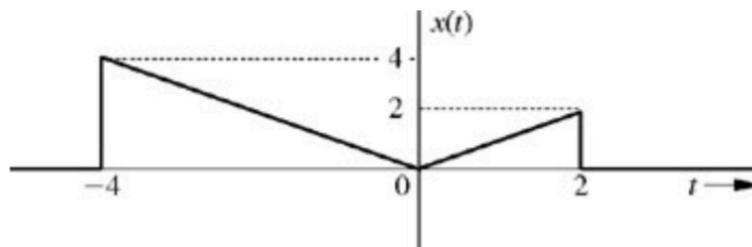
Assignment – 1
Marks: 20

Due Date: 18/10/2018
Handout Date: 12/10/2018

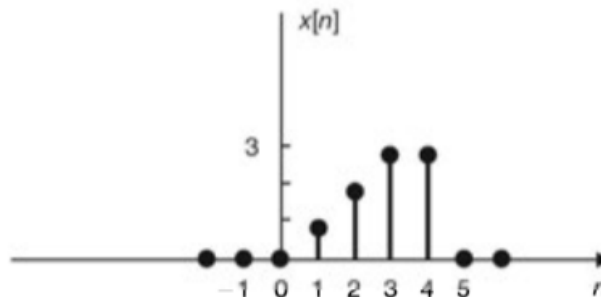
Question # 1:

Sketch and label each of the following signals:

1. $x(2t - 4)$



2. $x[-n + 2]$



Question # 2:

Determine whether or not the following signal is periodic. If a signal is periodic, determine its fundamental period:

$$x(t) = \cos t + \sin \sqrt{2}t$$

Question # 3:

Determine whether or not the following signal is energy signal, power signal or neither.

$$x[n] = (-0.5)^n u[n]$$

Good Luck