

ECE 218 Signals and Systems Laboratory 4

II. EXPERIMENTAL WORK

2) Draw the following discrete time signals using matlab:

a) $s_1(t) = u(t-2) + \delta(t-5)$

b) $s_2(t) = u(t+1) + \delta(t) - u(t-3) + r(t-6)$

c) $s_3(t) = u(t) + u(t-1) - 3\delta(t-5) + u(t-8) - 3u(t-10)$

d) $s_4(t) = r(t) - 3r(t-4) - \delta(t-6) + u(t-8).t$

e) $s_5(t) = 2u(t+2) + u(t) + 5\delta(t-3) - \delta(t-5).t^2$

3) Define and draw the following functions:

$$x_1(t) = e^{-t^2} u(t) - r(t)t^2$$

$$x_2[n] = \cos(n)u(n)n^2$$