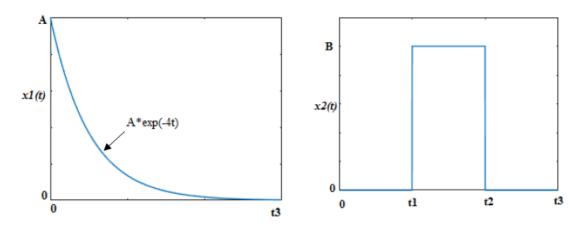
Exercise 1

Representing Signals

Part 1:

Write a Matlab script to generate the signals x1(t) and x2(t) shown below. Let A=1, B=1, t1=1 sec, t2=2 sec, t3=3 sec, and dt=0.001.



Plot the signals x1(t) and x2(t) on separate graphs. Multiply them and plot the product signal.

<u>Part 2:</u>

Write a Matlab script to find the sum of a sinusoidal signal $x1(t) = A1 \sin(2\pi f 1t)$ and the signal shown below over 3 seconds. The amplitude A1 of the sinusoidal signal should be 2 with the frequency f1 = 1Hz. Plot the signals x1 and x2 and the summed signal x1 + x2 generated by your code. Set dt=0.001.

