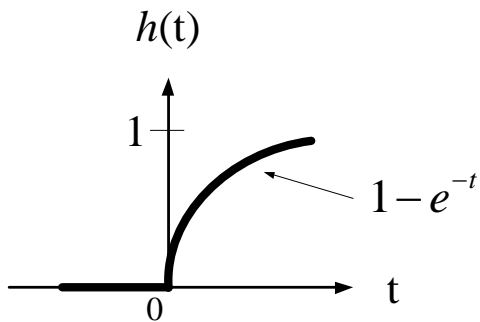


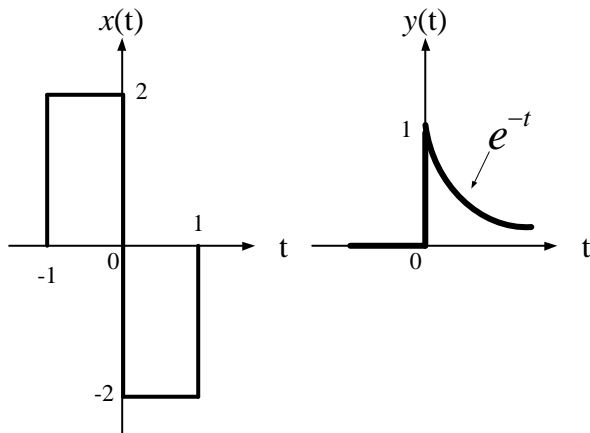
EE 207-Winter 2015(142)
Hw2 Due (5/3/2015)
Dr. Adil Balghonaim

Q1 Let the impulse response $h(t)$ for a linear time invariant system as shown below



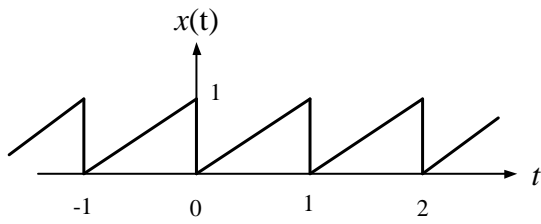
- (a) Is the system memory or memory less , *explain* ?
- (b) Is the system causal or non causal , *explain* ?
- (c) Is the system Stable BIBO or not , *explain* ?

Q2 Let $x(t)$ and $y(t)$ be as shown below:



Evaluate convolution integral $x(t)*y(t)$?

Q3 Let $x(t)$ be a periodical signal as shown below:



Find the Fourier Series complex coefficients X_n ?