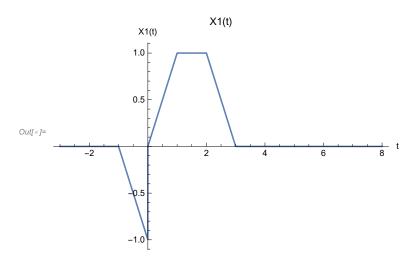
Introduction to Mathematica

#CA1

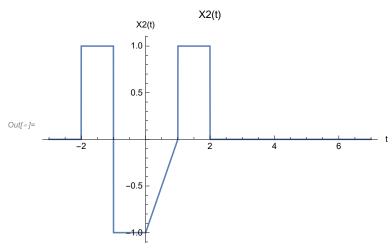
#Q1

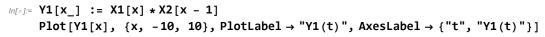
Signals & Systems

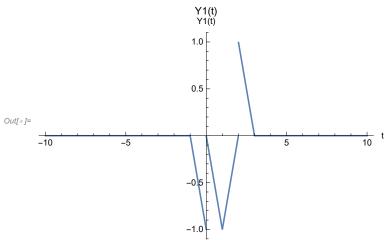
Mohammad GharehHasanloo



log[*]:= Plot[X2[x], {x, -3, 7}, PlotLabel \rightarrow "X2(t)", AxesLabel \rightarrow {"t", "X2(t)"}]

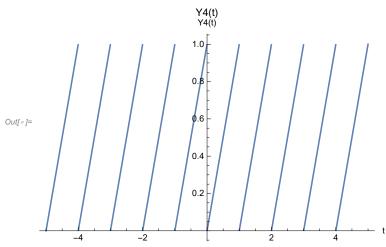






$$lo[*] = Y4[x_] := \sum_{k=-5}^{5} X1[x-2*k] * X2[-1-x+2*k]$$

Plot[Y4[x], $\{x, -5, 5\}$, PlotLabel \rightarrow "Y4(t)", AxesLabel \rightarrow {"t", "Y4(t)"}]



In[•]:=

Y5[x_] := UnitStep[Y4[x] + 1/2] - UnitStep[Y4[x] - 1/2] Plot[Y5[x], {x, -5, 5}, PlotLabel \rightarrow "Y5(t)", AxesLabel \rightarrow {"t", "Y5(t)"}]

