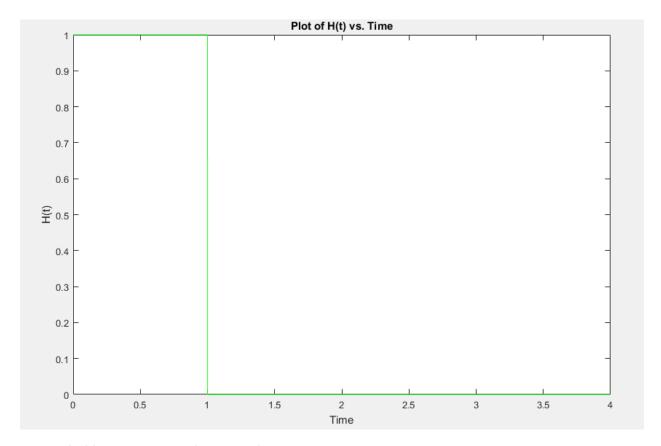
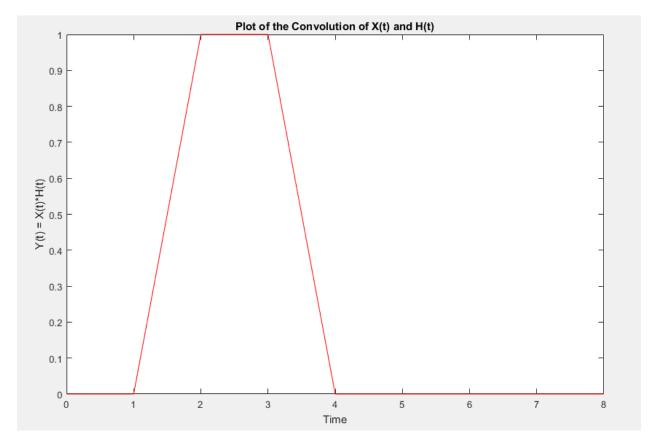


A plot of X(t) over 4 seconds. (dt =0.001)



A plot of H(t) over 4 seconds (dt = 0.001)



A plot of Y(t) = X(t)*H(t) over 8 seconds. (dt = 0.001)

The (-dt) comes from the lack of overlap at length(x)+length(h). If the convolution includes length(x)+length(h) then convolution would be zero (an extraneous term).