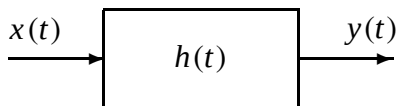
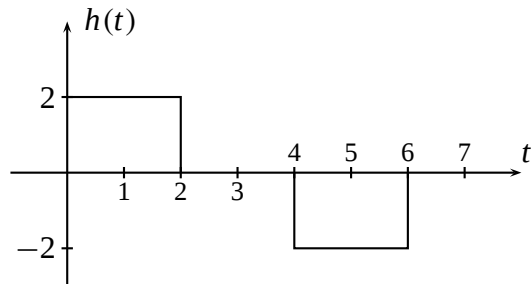
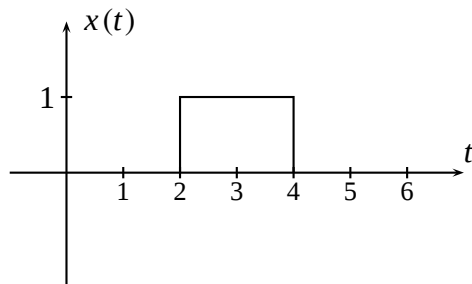


PROBLEM:

Consider the linear time-invariant system shown below.



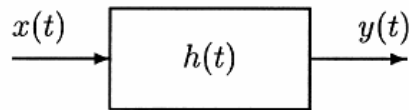
The input $x(t)$ and the impulse response $h(t)$ are shown in the figures below.



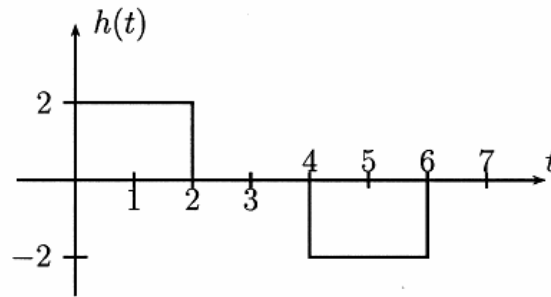
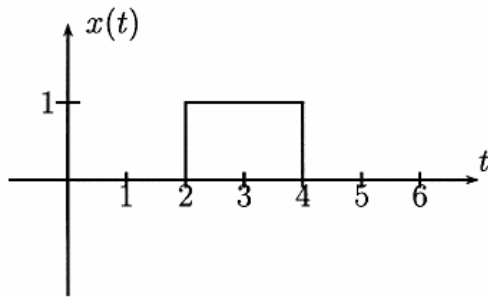
- (a) Draw $x(1 - t)$.
- (b) Make a carefully labeled plot of the filter output, $y(t)$.



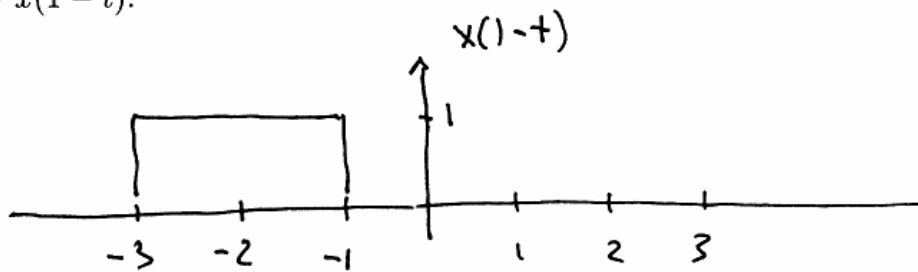
Consider the linear time-invariant system shown below.



The input $x(t)$ and the impulse response $h(t)$ are shown in the figures below.



(a) Draw $x(1-t)$.



(b) Make a carefully labeled plot of the filter output, $y(t)$.

Recall that the convolution of two pulses of the same length gives a triangle. So, we have

