Question #1: Consider the input signal

x[n]

0 0 1 1 1 1   0 0 0 0 0

-2 -2
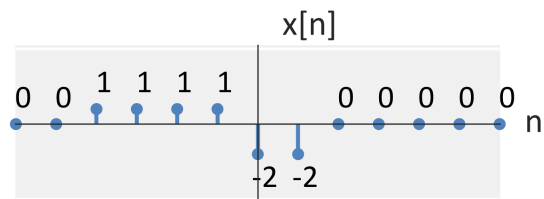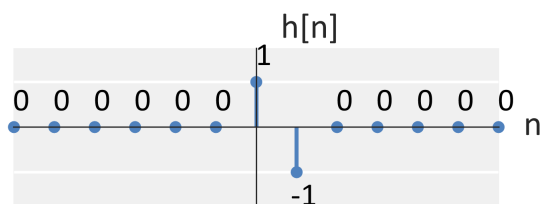
For each impulse response corresponding to an LTI system below, sketch the system's output (for $-6 \leq n \leq 6$) with input $x[n]$.

(a) $h[n] = \delta[n] - \delta[n-1]$

h[n]

1

0 0 0 0 0 0   0 0 0 0 0

-1

(b) $h[n] = 2u[n]$

h[n]

2 2 2 2 2 2 2

0 0 0 0 0 0