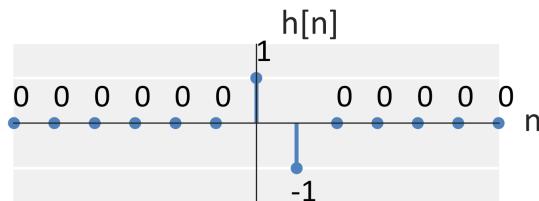
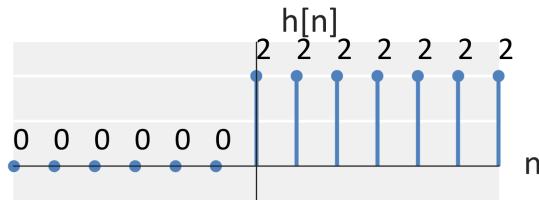


Question #1: For each impulse response corresponding to an LTI system below, determine if the system is causal (or anti-causal or acausal), memoryless, and BIBO stable.

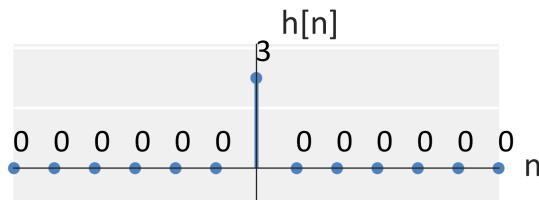
(a) $h[n] = \delta[n] - \delta[n - 1]$



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

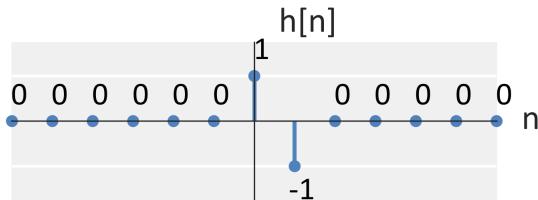


(c) $h[n] = 3\delta[n]$

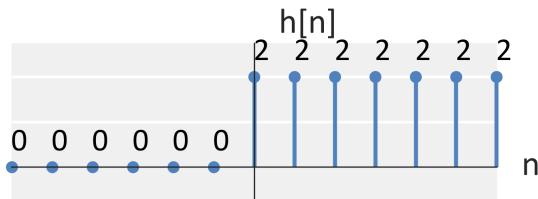


Question #2: For each impulse response corresponding to an LTI system below, determine the corresponding difference equation.

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



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



(c) $h[n] = 3\delta[n]$

