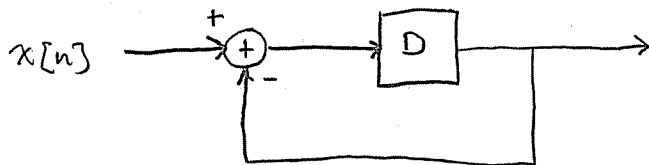


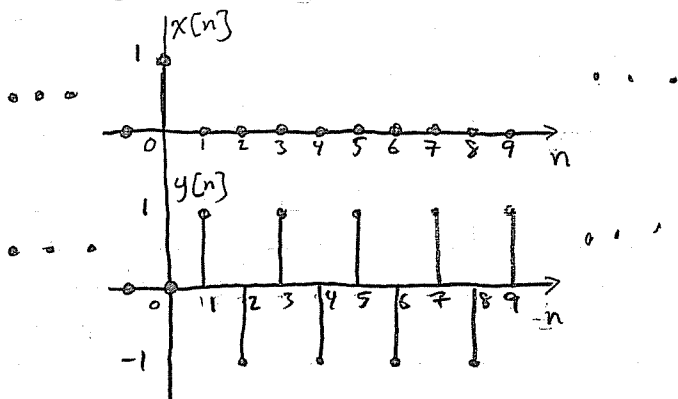
Consider the feedback system shown below. Assume  $y[n] = 0$  for  $n < 0$ .



(a) Sketch the output when  $x[n] = \delta[n]$

The block diagram can be written in equation form as

$$y[n] = x[n-1] - y[n-1], \quad y[n] = 0 \text{ for } n < 0$$



(b) Sketch the output when  $x[n] = u[n]$

