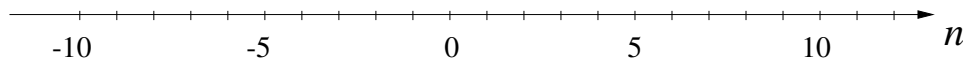


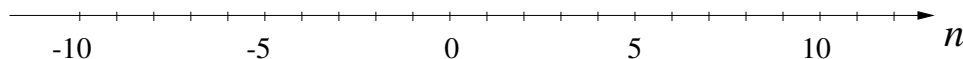
PROBLEM:

Let $x[n] = u[n] - u[n - 7]$ and $h[n] = \begin{cases} (\frac{1}{2})^n & 0 \leq n \leq 3 \\ 0 & \text{otherwise.} \end{cases}$

(a) Plot $x[n]$.



Plot $h[n]$.



Label the amplitudes for each sample.

(b) If we now assume $x[n] = \delta[n] + \delta[n - 1] + \delta[n - 2]$ and $y[n] = x[n] * h[n]$, where $h[n]$ is as defined above, plot $y[n]$ on the axis below.

