PROBLEM:

An FIR filter is described by the difference equation:

$$y[n] = 3x[n] + 2x[n-3] - 3x[n-5]$$

(a) Suppose that the input signal is: $x[n] = -3\delta[n-1] + 2\delta[n-3]$. Make a plot of $x[n]$.

(b) Find the output $y[n]$ when the input signal is $x[n]$ from the previous part. List all the values of $y[n]$ or give a plot.