

## PROBLEM:

Suppose that a LTI system has system function equal to

$$H(z) = 1 - 3z^{-2} - 7z^{-3} + 4z^{-5}$$

- Determine the difference equation that relates the output  $y[n]$  of the system to the input  $x[n]$ .
- Determine and plot the output sequence  $y[n]$  when the input is  $x[n] = \delta[n]$ .