



EXERCISE 5.3: Determine and plot the impulse response of the FIR system

$$y[n] = \sum_{k=0}^{10} kx[n - k]$$



$$y[n] = \sum_{k=0}^{10} k \delta[n-k] = 0 \cdot \delta[n] + \delta[n-1] + 2\delta[n-2] + \dots + 10\delta[n-10]$$

IMPULSE
AT $n=2$

