

b) This question concerns convolution sum. Determine the output response  $y[k]$  for the following input signal and impulse response:

$$x[k] = \begin{cases} 2 & 0 \leq k \leq 2 \\ 0 & \text{otherwise} \end{cases} \quad \text{and} \quad h[k] = \begin{cases} k+1 & 0 \leq k \leq 4 \\ 0 & \text{otherwise,} \end{cases}$$

**Use the graphical method.**

[illegible]