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

$$x[k] = \begin{cases} k & 0 \le k \le 4 \\ 0 & \text{otherwise} \end{cases}$$

and

$$h[k] = \begin{cases} k & 0 \le k \le 4 \\ 0 & \text{otherwise} \end{cases}$$

Use the table method

[13 marks]

Do not write
in this column