$x(n) = \{1, 2, 3, 4, 5\}$ $h(n) = \{6, 7, 8\}$

For circular using circular, first we make the lengths equal to

$x(n) = \{1 \quad 2 \quad 3 \quad 4 \quad 5 \quad 0 \quad 0\}$ length of circular convo.

$h(n) = \{6 \quad 7 \quad 8 \quad 0 \quad 0 \quad 0 \quad 0\}$ $5+3-1 = 7$.

$$\begin{bmatrix} 1 & 0 & 0 & 5 & 4 & 3 & 2 \\ 2 & 1 & 0 & 0 & 5 & 4 & 3 \\ 3 & 2 & 1 & 0 & 0 & 5 & 4 \\ 4 & 3 & 2 & 1 & 0 & 0 & 5 \\ 5 & 4 & 3 & 2 & 1 & 0 & 0 \\ 0 & 5 & 4 & 3 & 2 & 1 & 0 \\ 0 & 0 & 5 & 4 & 3 & 2 & 1 \end{bmatrix} \begin{bmatrix} 6 \\ 7 \\ 8 \\ 0 \\ 0 \\ 0 \\ 0 \end{bmatrix} = \begin{bmatrix} 6 \\ 19 \\ 40 \\ 61 \\ 82 \\ 67 \\ 40. \end{bmatrix}$$