32b)

$x[n] = [1, 0, 0, 0, 1]$

$y[n] = [\underset{\uparrow}{1}, 1, 1, 0, 0, 0]$

$$x[n] * y[n] = \sum_k x[k]\,y[n-k] = h[n]$$

Since $x[n] = 1$ @ $n = 0, 4$ those are the only k values needed

$h[0] = x[0] \cdot y[0-0] + x[4]\,y[0-4]$

$h[0] = 1 \cdot 1 + 1 \cdot 0 = 1$

$h[1] = 1 \cdot y[1-0] + 1 \cdot y[1-4]$

$h[1] = 1 \cdot 1 + 1 \cdot 0 = 1$

$h[2] = y[2] + y[-2] = 1$

$h[3] = y[3] + y[-1] = 0$

$h[4] = y[4] + y[0] = 1$

$h[5] = y[5] + y[1] = 1$

$h[6] = y[6] + y[2] = 1$

$h[7] = y[7] + y[3] = 0$

$x[n] * y[n] = [\ldots \underset{\uparrow}{1}, 1, 1, 1, 0, 1, 1, 1, 0 \ldots]$