

Exercício 4

$$RA = 11201721076 \quad r_1 = 1 \quad r_2 = 0 \quad r_3 = 7 \quad r_4 = 6$$

Ⓒ $W_{j-1} \quad h_\psi(n) = \{-1/\sqrt{2}, 1/\sqrt{2}\} \quad h_\psi = \{1/\sqrt{2}, 1/\sqrt{2}\}$

$$W_j = \{1, 0, 7, 6\}$$

$$\begin{array}{rrrr} 6 & 7 & 0 & 1 \\ & \times & 1/\sqrt{2} & -1/\sqrt{2} \\ \hline -6/\sqrt{2} & -7/\sqrt{2} & 0 & -1/\sqrt{2} \\ 6/\sqrt{2} & 7/\sqrt{2} & 0 & 1/\sqrt{2} & + \\ \hline 6/\sqrt{2} & (1/\sqrt{2}) & -7/\sqrt{2} & (1/\sqrt{2}) & -1/\sqrt{2} \\ \hline W_{j-1} = \{1/\sqrt{2}, 1/\sqrt{2}\} \end{array}$$

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$$\begin{array}{rrrr} 6 & 7 & 0 & 1 \\ & \times & 1/\sqrt{2} & 1/\sqrt{2} \\ \hline 6/\sqrt{2} & 7/\sqrt{2} & 0 & 1/\sqrt{2} \\ 6/\sqrt{2} & 7/\sqrt{2} & 0 & 1/\sqrt{2} & + \\ \hline 6/\sqrt{2} & (13/\sqrt{2}) & 7/\sqrt{2} & (1/\sqrt{2}) & 1/\sqrt{2} \\ \hline \{1/\sqrt{2}, 13/\sqrt{2}\} \end{array}$$

Ⓐ $h_\psi = \{1/\sqrt{2}, 1/\sqrt{2}\}$

$$\begin{array}{rr} 13/\sqrt{2} & 1/\sqrt{2} \\ \times & 1/\sqrt{2} & 1/\sqrt{2} \\ \hline 13/2 & 1/2 \\ 13/2 & 1/2 & + \\ \hline 13/2 & (14/2) & 1/2 \end{array}$$

$$W_{j-2} = \{7\}$$

Ⓑ $h_\psi = \{-1/\sqrt{2}, 1/\sqrt{2}\}$

$$\begin{array}{rr} 13/\sqrt{2} & 1/\sqrt{2} \\ \times & 1/\sqrt{2} & -1/\sqrt{2} \\ \hline -13/2 & -1/2 \\ 13/2 & 1/2 & + \\ \hline 13/2 & (-12/2) & -1/2 \end{array}$$

$$W_{j-2} = \{-6\}$$