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Lista 7

$$2.1) B.10.3) A = \begin{bmatrix} 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$
; $B = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$; K para or polar. $S = -2 \pm j4$ s $S = 10$

Lor Ockermoan, temor que K=[0 0 1]. C-1. PIA)

$$(1 = (-1)^2 \cdot | 1 - 11 | - 60 | - 60 - 121 = -61$$

$$\left(\begin{bmatrix} 1 \\ 1 \end{bmatrix} = \begin{bmatrix} -1 \end{bmatrix}^3 \cdot \begin{bmatrix} 1 \\ 1 \end{bmatrix} = \begin{bmatrix} -11 \\ 60 \end{bmatrix} = -\left(\begin{bmatrix} 1 \\ 60 \end{bmatrix} + \begin{bmatrix} 11 \\ 11 \end{bmatrix} = -\begin{bmatrix} 11 \\ 11 \end{bmatrix}$$

$$(1_{13} = (-1)^4, |1_{1-11}| = -11 - 1 = -12$$

$$(2) = (-1)^3 \cdot \begin{bmatrix} 1 & 1 \\ -11 & 60 \end{bmatrix} = -[60 + 11] = -71$$

$$C_{22} = (-1)^4 \cdot \begin{bmatrix} 0 & 1 \\ 1 & 60 \end{bmatrix} = 1$$

$$\left(\left[23 = \left[-1 \right]^{5}, \left[0 \right] \right] = -\left[-1 \right] = 1$$

$$\Delta_{15} = (S_{i} - A + B_{i}) = (S + 2 + 24)(S + 2 - 24)(S + 10)$$

$$\Delta_{(S)} = (S^2 + 2S - 24S + 2S + 4 - 28 + 24S + 28 + 16)(S + 10) = (S^2 + 4S + 20)(S + 10)$$

$$\Delta_{151} = S^3 + 4S^2 + 20S + 10S^2 + 40S + 200 = S^3 + 14S^2 + 60S + 200$$

$$A^{2} = \begin{bmatrix} 0 & 1 & 0 & 1 & 0 & 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 & 1 & = & -1 & -5 & -6 \\ -1 & -5 & -6 & -1 & -5 & -6 & 6 & 24 & 31 \end{bmatrix}$$

$$V_{(A)} = \begin{bmatrix} 199 & 55 & 8 \\ -8 & 159 & 7 \end{bmatrix} / \begin{bmatrix} -7 & -43 & 117 \end{bmatrix}$$

Com av matrizer encontrador, podemos calcular a formula de ackermaan.

$$K = \frac{1}{83} [2389 \ 458 \ 206] = [28,7831 \ 5,5181 \ 2,4819]$$

