D- Sdem questão 1 do 10 2003

2 humena porte =) idem questo a 2 do 15 2003

Segunda porto

$$\frac{z^{2}-2z-1}{(b-1)^{2}} = \frac{(b+1)^{2}}{(b-1)^{2}} - \frac{2(b+1)}{(b-1)} - 1 = (b+1)^{2} - 2(b+1)(b-1) - (b-1)^{2} = 0 = 0$$

3 Hom questão 3 do 10 2003

$$\frac{f(s)}{b} = \frac{1}{b^3} = \int_0^1 \left(\frac{1}{2}\right) = \frac{1}{2} \left(\frac{1}{2}\right)$$

$$T:J \Rightarrow \mathbb{Z}\{\frac{1}{2}K^{2}I^{k}u(K)\}: \frac{0.5Z(Z+I)}{(Z-I)^{3}}$$

$$(z) = (z-1)^{3}$$

$$(z-1)^{3} = \underbrace{(z-1)^{3}}_{(z-1)^{3}} = \underbrace{(z-1)^{3}}_{(z-1)^{3}}$$

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$$K_a = l_{mn} (z-1)(z-0.8)k$$
. $0.5(z+1) = 0.2k$. $0.5.2 = 10 \Rightarrow 0.2k = 10 \Rightarrow k = 50$

$$C(z) = SO(z - 0.8) = U(z)$$
 = $ZU(z) = SOze(z) - 40e(z)$ = $U(x) = SOe(x + 1) - 40e(x)$

$$A^{2} = \begin{bmatrix} 1 & -1 & 0 \\ 0 & 0 & 0 \\ -30 & 5 & 25 \end{bmatrix}$$
 $\rightarrow C = \begin{bmatrix} x & 4x & -4x \\ 5x & 0 & 0 \\ 0 & 5x & -5x \end{bmatrix}$ $\rightarrow det(C) = 0 \Rightarrow mao i (ontrolove)$

5) Combledades C=[1 0 0], [0 1 0], [0 0 1]

Vana C= [0 0 1]