## Paulo Sérgio de Souza Lima 11621EAU012 Gabriel Ferreira de Lima 11621EAU006

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1)

MAT1: 11621EAU006, KANO1: 3, KCUR1: 1, KNUM1: 7

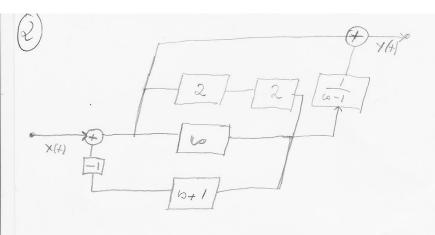
MAT2: 11621EAU012, KANO2: 3, KCUR2: 1, KNUM2: 4

MAT3: 10011EBI075, KANO3: 4, KCUR3: 2, KNUM3: 4

2)

I = 3; II = 1; III; = 7; IV = 4; V = 4

a(s):=x(s)+b(s)
y(s):=d(s)+a(s)
d(s):=c(s)*1/(s-1)
c(s):=4+s*a(s)
b(s):=c(s)*(-s-1)
h(s):=y(s)/x(s)
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$$H(\omega) = Y(\omega) = \frac{d+\alpha}{a-c(-\omega-1)} = \frac{c \cdot 1}{a-c(-\omega-1)} + \frac{c}{4+\omega} = \frac{1}{2a-1} + \frac{1}{2a-1} +$$

$$\frac{(4+5) + (6-4)}{(4+5)(6-4)} = \frac{4+6+6-1}{40+6^3-4-5} = \frac{3+45}{36+6^3-4} = \frac{1+(5+1)(4+5)}{4+5} = \frac{1+45+6^3-4-5}{4+5} = \frac{3+45}{4+5} = \frac{3+6^3-4}{4+5} = \frac{3+45}{4+5} = \frac{3+6^3-4}{4+5} = \frac{$$