1 (1= 12 (4s+2)

A=12

$$R_{1} = 1 \quad R_{2} = 1 \quad L_{1} = 1 \quad L_{2} = 2 \quad L_{3} = 4$$

$$\frac{1}{12} \quad \frac{1}{12} \quad \frac{1}{12} \quad \frac{1}{12} \quad \frac{1}{12} \cdot \frac{1}$$

2) 
$$-l_1 \cdot R_1 + l_2 \left( L_3 S_+ R_1 + R_2 \right) = 0$$

$$\frac{2}{(S+2S+1)} - \frac{1}{2} + \frac{1}{2} \left( \frac{1}{2} \right)$$

$$|| \frac{1}{3} || \frac{1}{1} (S + 2S + 1) - \frac{1}{2} = \frac{1}{5}$$

$$|| \frac{1}{1} (1 + 3S) - \frac{1}{2} = \frac{1}{5}$$

$$|| -\frac{1}{1} + \frac{1}{2} (4S + 2) = 0$$

$$|_{1}-|_{2}$$

$$|_{1}(4+35)-|_{2}=\frac{1}{5}$$

$$|_{2}(45+2)(1+35)-|_{2}=\frac{1}{5}$$

$$\frac{1}{14} \cdot \frac{1}{12} \cdot \frac{1}{4} \cdot \frac{1}{5} \cdot \frac{1}{2}$$

$$|2((4s+2)(1+3s)-1)=\frac{1}{5}=|3|_2(4s+12s^2+2+6s^2-1)=\frac{1}{5}$$

$$|_{2} = \frac{1}{S(12s^{2} + 10s + 1)} = \frac{1}{12s(S + 0.7173)(S + 0.1162)}$$

$$As^{2} + 0,1162As + 0.7172AS + 0.0832A + 1.25^{2}B + 5 B - 1.3944$$

$$As^{2} + 12s^{2} \cdot B + 0.8335 As + 13944 Bs + 8.6076 \cdot Cs + 0.0832A = 1$$

$$A = 12$$

$$A + 126 + 12C = 0$$

$$1.3944 B + 8.6076 \cdot C = 0$$

$$B + C = -1$$

$$\beta + C = -1$$

$$-1.3944 (1+c) + 8.6076c = 0$$

$$\beta = -1-c$$

$$-1.3944 - 1.3944 + 2.6076 = 0$$

$$\beta = -1.193$$

$$7.2132c = 1.3944$$

C = 0.193

$$VR(5) = \frac{1}{S} - \frac{1.193}{S+0.1162} + \frac{0.193}{S+0.1162}$$

$$VR(5) = \left[1 - 1.193 \cdot e^{-0.7193} + 0.193e^{-0.1162}\right] S(4)$$

M12 = 1/2 . Fadatal 1B) R =1  $M_{13} = 2$ R2=1 4-2 L3 - 4 Ma3=3 × 10(+) = S(+) s ovaho re premose prederac U1=10-215 +10M125 U2 = 11 Must 12 12 5 jedniam L1 utitle 7 new L2, admy ped L2 na L1 1.) [125 + 1, 25 +1, M25 +1, M2.5 - I2 · M13 · S + /2 · M25 · S + (11-12) R1 = U. hope one shope inducina -> U0= I1 (S(E1+L2+2M12)+R1)-I2 (R1+S(M13-M28)) 2) -(1, -12) -R1+ 12 L3-3 +11. M23 5 -11 M138 +12-R2=0 -> 0 = - I (R1+S(M13-M23) + 12 (SL3+R1+R2) opécuto se vocume serrojnice: > U1 = 11. L1. S + 11. L2. S + L1 . H125 + L1 . H125 4 -> 1, L, S+1, L2S+21, . M,2 S -> Lemiral= 4 + 62+2 M12 => U1 = 11. L1. S+1, L1 S - 11. M125 - 11 M125 > 11 = 11 LIS + 41 L2S - 2 M12S =>  $\sqrt{\frac{1}{8}} = \frac{1}{8} = \frac{1}{1} = \frac{1}{1}$ -  $l_1 = l_2 \frac{4s+2}{1-5}$ 0 = -1, (1-5) + 12 (45+2)  $\frac{1}{5} = \frac{1}{2} \frac{(45+1)(45+2)}{1-5} - \frac{1}{2}(1-5) = \frac{1}{1-5} \left( \frac{16s^2 + 8s + 45 + 2 - 1 + 2s - 5^2}{1-5} \right)$  $\frac{1}{5} = \frac{1_2}{1-5} \left( 155^2 + 145 + 1 \right) \rightarrow 1_2 = \frac{1-5}{5(155^2 + 145 + 1)}$ 1 = 3(5+0,07794)(5+0,8554). 15 1-5= A(S+0,09794)(S+0,8554) +BS(S+0,8554).+CS(S+0,007794) 1-5 = A52+ [A5.0,8554 + A5.0,07794]+ A.0,0667 A + B + C - C 0.933A + 0.855B + 0.078c = -1  $A - 0.0667 = 1 \longrightarrow A = 14.9925$ B.0,855 +0,078=-1-14.888 (-c-14.993).01855 + 01078-c=-15.888  $-C \cdot 0, 77 = -3.069$  $= \frac{1}{12} = \frac{1}{5} - \frac{1.263}{3 + 0.078} + \frac{0.263}{5 + 0.855}$   $= \frac{1}{12} = \frac{1}{5} - \frac{1.263}{3 + 0.078} + \frac{0.263}{5 + 0.855}$   $= \frac{1}{12} = \frac{1}{12} - \frac{1.263}{3 + 0.078} + \frac{0.263}{5 + 0.855}$   $= \frac{1}{12} = \frac{1}{12} - \frac{1.263}{3 + 0.078} + \frac{0.263}{5 + 0.855}$ 

Mr (t) = [1-1.263 C +0.263 · e -0.855t] S(t)

No(+t)= f(+)

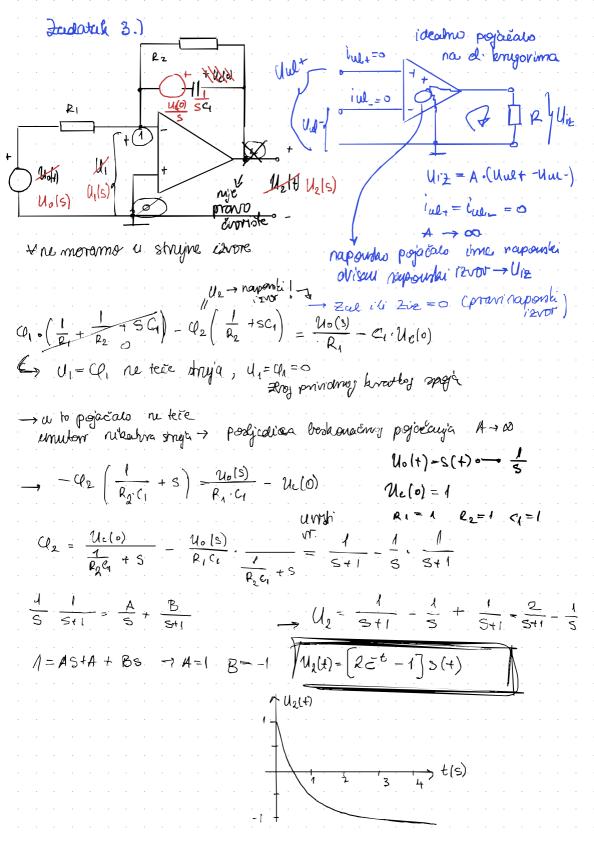
Fadatak 2.) Zaplace

(53+1)+25(5+1) -> (5+1)(52-5+1)+25(5+1) A+B=0 B=-1 A+B+C=0 C=0=> 1=A(S+5+1) + (Bs+C)(S+1) = AS++AS+A  $U_{2} = \frac{1}{S+1} - \frac{5}{S^{2}+S+1} = \frac{1}{S+1} - \left(\frac{S+\frac{1}{2}}{(S+\frac{1}{2})^{2}+\frac{3}{2}} + \frac{\frac{1}{2}}{(S+\frac{1}{2})^{2}+\frac{[3]}{2}}\right)$ 

$$= \frac{1}{S+1} + \frac{1}{S+1} + \frac{1}{(S+\frac{1}{2})^2 + (\frac{13}{2})^2} + \frac{1}{(S+\frac{1}{2})^2 + (\frac{13}{2})^2} + \frac{1}{(S+\frac{1}{2})^2 + (\frac{13}{2})^2} + \frac{1}{(S+\frac{1}{2})^2 + (\frac{13}{2})^2} + \frac{1}{(S+\frac{1}{2})^2 + (\frac{13}{2})^2}$$

 $U_{L} = \frac{1}{S+1} - \frac{S+\frac{1}{2}}{(S+\frac{1}{2})^{2} + (\frac{53}{2})^{2}} + \frac{1}{53} \cdot \frac{\frac{13}{2}}{(S+\frac{1}{2})^{2} + (\frac{53}{2})^{2}}$  $U_{2}|t\rangle = \left[e^{-t} - e^{-\frac{1}{2}t}\cos\left(\frac{3}{2}t\right) + \frac{1}{13}, e^{-\frac{1}{2}t}\cdot \sin\left(\frac{3}{2}t\right)\right] \cdot S(t)$ 

 $\rightarrow \left| \mathcal{N}_{2}(t) = \left[ e^{-t} - e^{-\frac{1}{2}t} \left( \cos \left( \frac{3}{2}t \right) + \frac{1}{3} \cdot \sin \left( \frac{3}{2}t \right) \right] \leq (t) \right|$ 



$$\frac{\partial a d \cot \lambda + \lambda}{\partial a} = \frac{\partial a}{\partial a} = \frac{\partial$$

