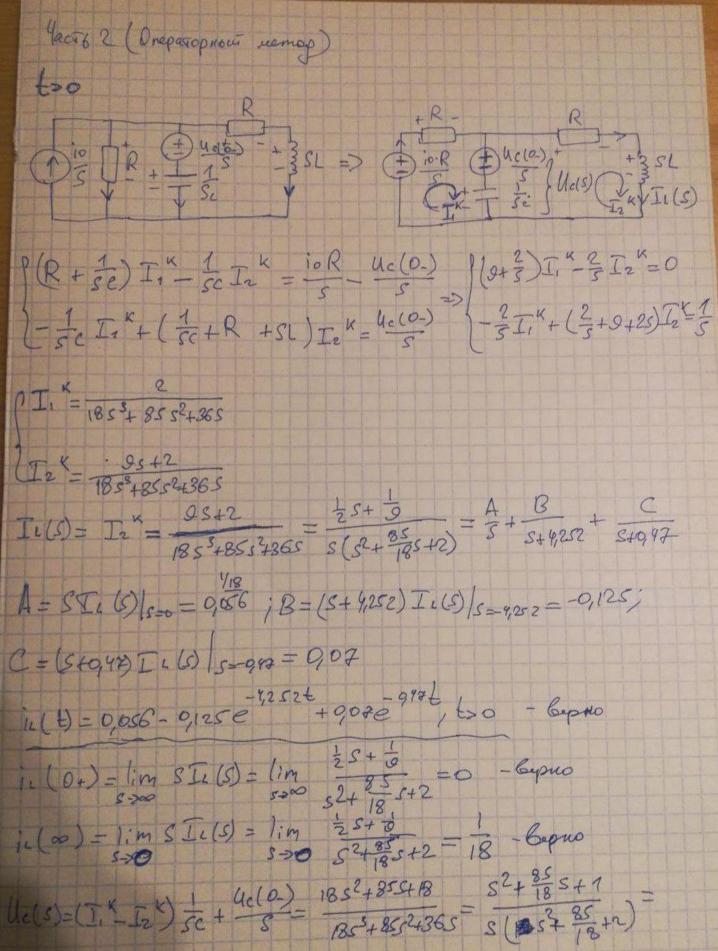


2)
$$\frac{1}{1} > \infty$$
 $\frac{1}{1} = \frac{1}{1} = \frac{1}{1$

 $= p^{2} + \frac{85}{18} p + 2 = 0 ; 0 = 4633 = p_{i} = -4,2518$ $p_{2} = -9,4704$

4) t=0+ (1. (0+) = (1. (0) = 1 1. (0+) = 1. (0) = 0 $\int_{0}^{1} \frac{4c'(0+)}{c'(0+)} = -\frac{2}{3} \frac{4c(0+)}{c'(0+)} - \frac{2}{3} \frac{1c(0+)}{c} + \frac{2}{3} = 0$ $\int_{0}^{1} \frac{4c'(0+)}{c'(0+)} = \frac{1}{2} \frac{4c'(0+)}{c'(0+)} - \frac{2}{3} \frac{1c'(0+)}{c'(0+)} = \frac{1}{2}$ (Le(+) = 4c(00) + A. e-4,25,18+ + A2. e-9,4204+ +>0 $\begin{array}{l} (U_{c}(0+) = \frac{1}{2} + A_{1} + A_{2} = 1 \\ U_{c}'(0+) = -4,2518 A_{1} + (-9,4704) A_{2} = 0 \end{array}) \begin{array}{l} A_{1} = -0,062 \\ A_{2} = 0,562 \end{array}$ $\begin{array}{l} U_{c}(t) = \frac{1}{2} - 0,062 \cdot e^{-4,2518} t \\ + 0,562 \cdot e^{-0,4804} t \\ \end{array} , t > 0$ in (t)=in(a)+B1.e-4,2518t B2.e-0,4704t, t>0 $\begin{cases} 1_{1}(0_{+}) = \frac{1}{18} + B_{1} + B_{2} = 0 \\ 1_{1}(0_{+}) = -9,2518B_{1} - 0,9709B_{2} = \frac{1}{2} \end{cases} \begin{cases} B_{1} = -0,125 \\ B_{2} = 0,07 \end{cases}$ iL(t)=18-0,125.e +0,07.e -0,4204, t=0 $T_1 = \frac{1}{4,2518} = 0,235$; $T_2 = \frac{1}{0,4204} = 2,126$ A ille), A 352 t,c 07-1/381



$$= \frac{A}{S} + \frac{B}{S+9,282} + \frac{C}{S+9,97}$$

$$A = U_{c}(S)S = 0, S; B = U_{c}(S)$$

Cepuo

$$U_{c}(0^{+}) = \lim_{s \to \infty} SU_{c}(s) = \lim_{s \to \infty} \frac{s^{2} + \frac{8s}{18}s + 1}{s^{2} + \frac{8s}{18}s + 2} = 1$$

Ue (a) = lim Sue(s) = lim
$$\frac{s^2 + \frac{8^5}{18}s + 1}{s^2 + \frac{8^5}{18}s + 2} = \frac{1}{2}$$