INTEGRALNI ISPIT - REŠENJA ZADATAKA

2.

$$v_I(t) = \begin{cases} 0.635\text{V} = const, & za \ t < 0 \\ 0.727\text{V} + 0.069 \cdot e^{-\frac{t}{118.44\mu s}}, & za \ t > 0 \end{cases}$$
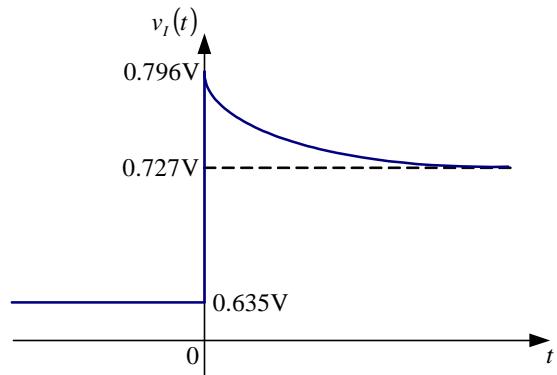

4.

za $0 < t < T_1$:

$$v_B(t) = 7{,}5\text{V} \cdot e^{-2000t}$$

za $T_1 < t < T_1 + T_2$:

$$v_B(t) = 5\text{V} - 7{,}5\text{V} \cdot e^{-2000(t-T_1)}$$

$T_1 = 549{,}3\mu s$
$T_2 = 549{,}3\mu s$
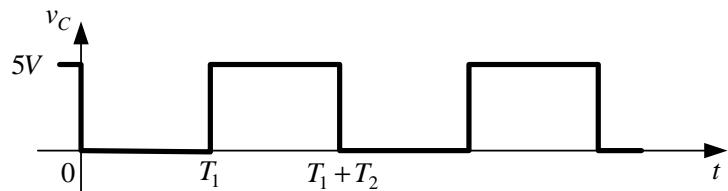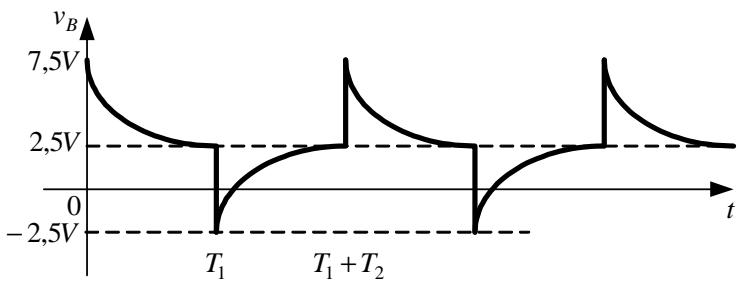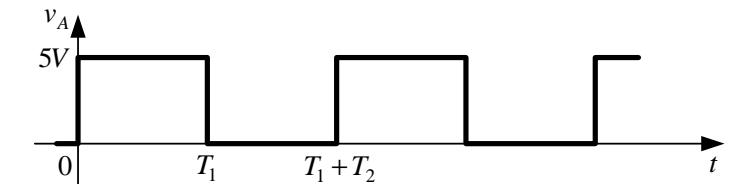
6. $R_{bo} = -R_f \dfrac{|V_R|}{V_{\min}} = 2.04\text{k}\Omega$

$R_0 = 31.64\text{k}\Omega$, $R_1 = 15.32\text{k}\Omega$, $R_2 = 7.16\text{k}\Omega$, $R_3 = 3.08\text{k}\Omega$, $R_4 = 1.04\text{k}\Omega$