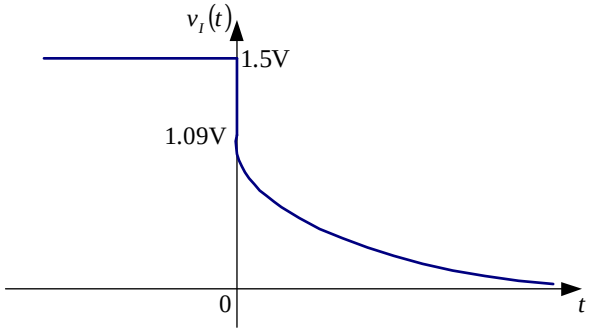
REŠENJA ZADATAKA

1. KOLOKVIJUM

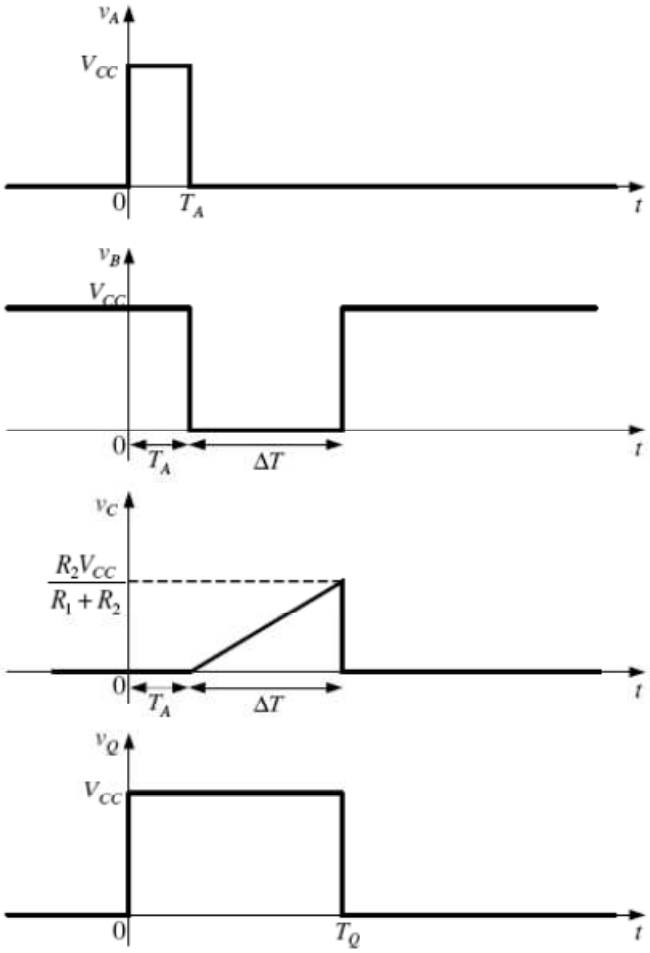
2.

$$v_I(t) = \begin{cases} 1.5\text{V} = const, & za \quad t < 0 \\ 1.09\text{V} \cdot e^{-\frac{t}{366.67\mu\text{s}}}, & za \quad t > 0 \end{cases}$$



2. KOLOKVIJUM

2.



$$T_Q = T_A + \Delta T = T_A + \frac{R_2 V_{CC} C_1}{(R_1 + R_2) I_0}$$

3. KOLOKVIJUM

2. a) $v_I = -\frac{3}{5}\cdot\left(8\overline{Q_3} + 4\overline{Q_2} + 2\overline{Q_1} + \overline{Q_0}\right)$.

b) Analogni izlazni napon D/A konvertora je minimalan za $Q_3Q_2Q_1Q_0 = 0000$ i iznosi $v_{I\min} = -9\text{V}$.

c) Analogni izlazni napon D/A konvertora je maksimalan za $Q_3Q_2Q_1Q_0 = 1111$ i iznosi $v_{I\max} = 0$.