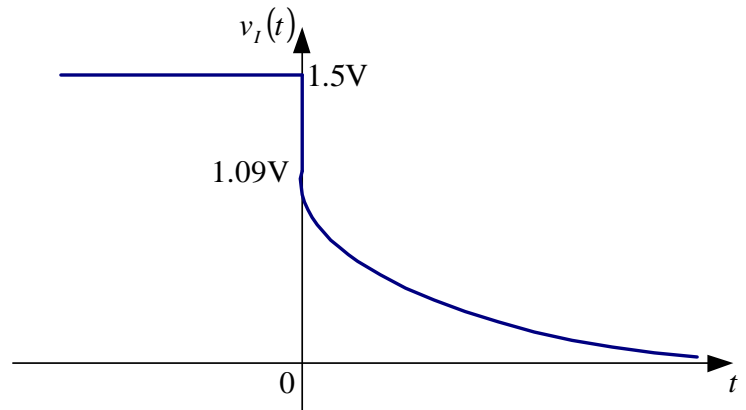


REŠENJA ZADATAKA

$$2. v_I(t) = \begin{cases} 1.5V = const, & \text{za } t < 0 \\ 1.09V \cdot e^{-\frac{t}{366.67\mu s}}, & \text{za } t > 0 \end{cases}$$

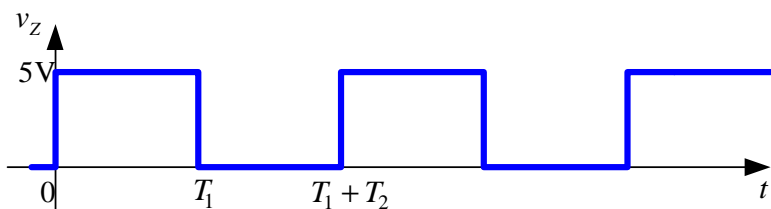
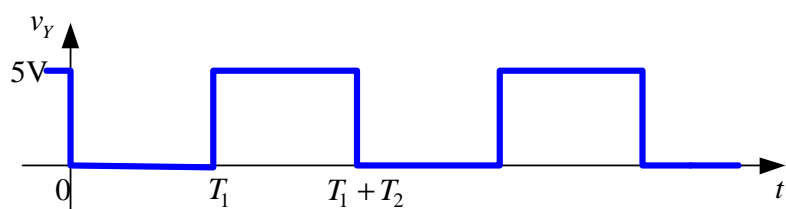
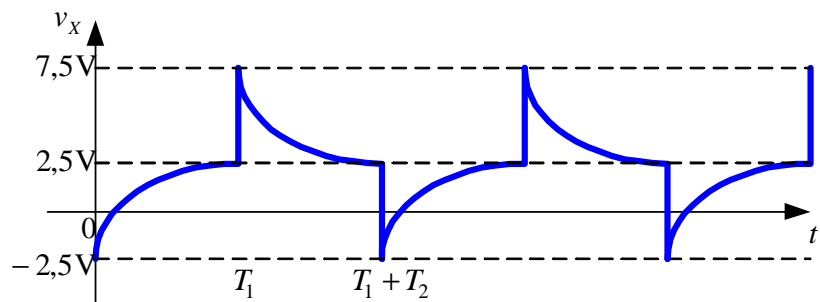


$$4. v_X(t) = 5V - 7.5V \cdot e^{-10000t}, \text{ za } 0 < t < T_1$$

$$v_X(t) = 7.5V \cdot e^{-10000(t-T_1)}, \text{ za } T_1 < t < T_1 + T_2$$

$$T_1 = T_2 = 109,86\mu s$$

$$f = \frac{1}{T_1 + T_2} = 4551,2\text{Hz}$$



$$6. a) v_{IZ} = -\frac{V_{REF}}{48R} R_f (8Q_3 + 4Q_2 + 2Q_1 + Q_0).$$

$$b) R_f = 2,4k\Omega.$$

S obzirom da je D/A konvertor unipolaran i da je $v_{IZ} \geq 0$, na osnovu rezultata iz tačke a) sledi da mora biti $V_{REF} < 0$.