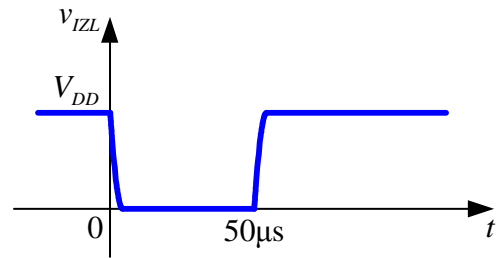


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2.

$$v_{IZL}(t) = \begin{cases} 5V, & t < 0 \\ 5V \cdot e^{-8,333 \cdot 10^8 \cdot t}, & 0 \leq t < 50\mu s \\ 5V \cdot (1 - e^{-8,333 \cdot 10^8 \cdot (t - 50\mu s)}), & t > 50\mu s \end{cases}$$



4.

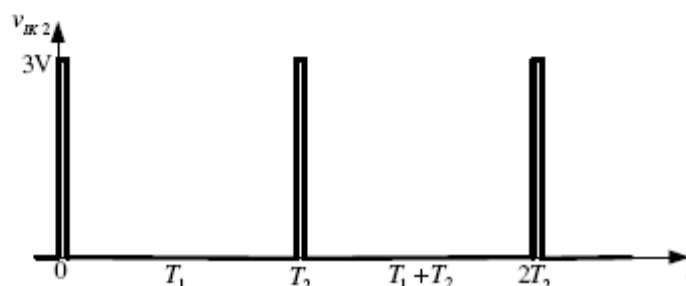
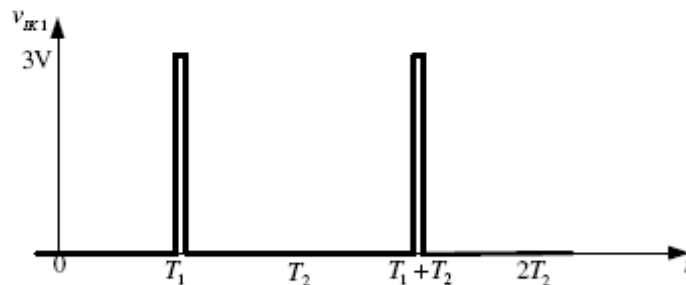
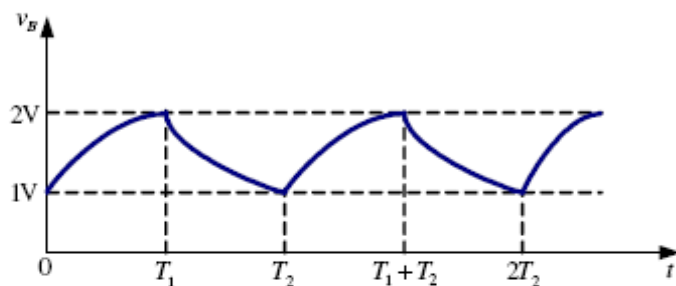
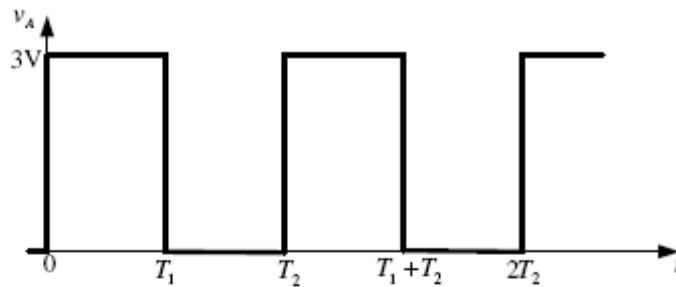
$$v_B(t) = 3V - 2V \cdot e^{-\frac{t}{100\mu s}}, \text{ za } 0 < t < T_1$$

$$v_B(t) = 2V \cdot e^{-\frac{t - T_1}{100\mu s}}, \text{ za } T_1 < t < T_2$$

$$T_1 = 69,3\mu s$$

$$T_2 = 138,6\mu s$$

$$f = \frac{1}{T_2} = 7,21\text{kHz}$$



6. $R_D = 10\text{k}\Omega$, $R_0 = 76\text{k}\Omega$, $R_1 = 33\text{k}\Omega$, $R_2 = 10,5\text{k}\Omega$, $R_3 = 750\Omega$