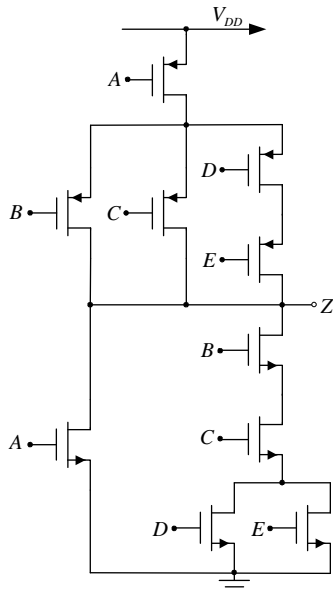


## REŠENJA ZADATAKA

2. a)



$$b) \tau_{pu} = 3 \cdot r_{dsPMOS} \cdot C = 750\text{ps}$$

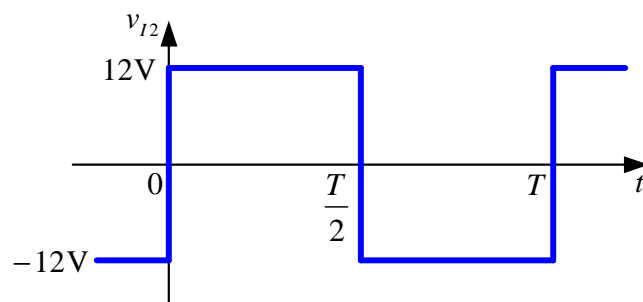
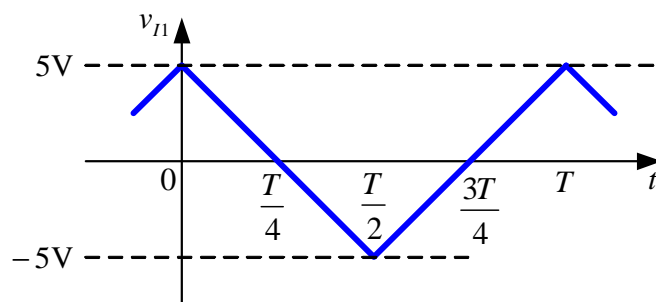
$$\tau_{pr} = 3 \cdot r_{dsNMOS} \cdot C = 300\text{ps}$$

4.

$$v_{I1} = \begin{cases} -2,4 \cdot 10^5 \cdot \left(t - \frac{T}{4}\right), & \text{za } 0 \leq t \leq \frac{T}{2} \\ 2,4 \cdot 10^5 \cdot \left(t - \frac{3T}{4}\right), & \text{za } \frac{T}{2} \leq t \leq T \end{cases}, \text{ signal se dalje periodično ponša.}$$

$$T = 83,33\mu\text{s},$$

$$f = 12\text{kHz}.$$



6. a) Prekidač je zatvoren za  $Q_i = 0$ , a otvoren za  $Q_i = 1$ .

b)  $R_D = 10\text{k}\Omega$        $R_0 = 90\text{k}\Omega$        $R_1 = 40\text{k}\Omega$        $R_2 = 15\text{k}\Omega$        $R_3 = 2,5\text{k}\Omega$

c)  $R_{bo} = 12,5\text{k}\Omega$        $V_{MAX} = 3,5\text{V}$        $V_{MIN} = -4\text{V}$