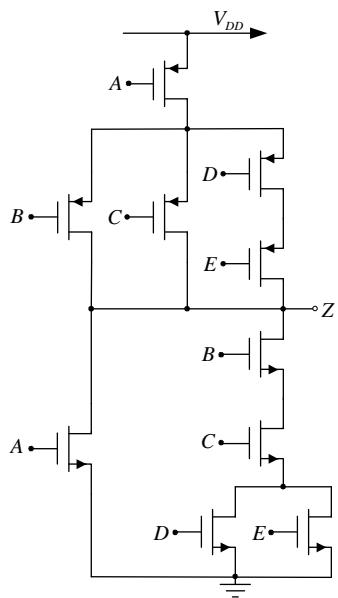


INTEGRALNI ISPIT - REŠENJA ZADATAKA

2. a)



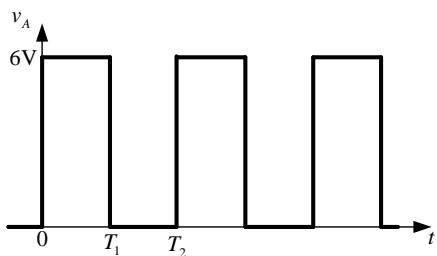
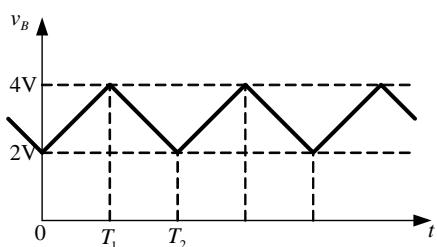
b) $\tau_{pu} = 3 \cdot r_{dsPMOS} \cdot C = 750\text{ps}$

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

4. $v_B(t) = V_{TL} - \frac{I_1 - I_2}{C} t = 2\text{V} + 10^5 \cdot t ; \text{ za } 0 \leq t \leq T_1; \quad T_1 = 20\mu\text{s} .$

$v_B(t) = V_{TH} - \frac{I_1}{C} (t - T_1) = 4\text{V} - 10^5 \cdot (t - T_1); \quad \text{za } T_1 \leq t \leq T_2; \quad T_2 = 40\mu\text{s} .$

$f = \frac{1}{T_2} = 25\text{kHz} .$



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