

REŠENJA ZADATAKA

1. a) $I_{D1} = 1\text{mA}$; $I_{D2} = 100\mu\text{A}$.

b) $a = \frac{v_p}{v_u} = -g_{m1}(R_3 \parallel R_p) \frac{R_2}{R_1 + R_2} \approx -2.53$.

c) $R_u = R_1 + R_2 = 5.05\text{k}\Omega$; $R_i = R_3 = 1.2\text{k}\Omega$.

4.

$v_I[\text{V}] = 14.4\text{V} = \text{const}$, za $-500\mu\text{A} \leq i_G \leq -144\mu\text{A}$ (IOP- poz. zasićenje, D_1 -OFF, Q_1 -DAR, Q_2 -DAR);

$v_I[\text{V}] = -100i_G[\text{mA}]$, za $-144\mu\text{A} \leq i_G \leq 0$ (IOP- lin. režim, D_1 -OFF, Q_1 -DAR, Q_2 -DAR);

$v_I[\text{V}] = 0 = \text{const}$, za $0 \leq i_G \leq 500\mu\text{A}$ (IOP- lin. režim, D_1 -ON, Q_1 -OFF, Q_2 -OFF).