

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.

$v_I[\text{V}] = V_D + V_{BE} = 1.4\text{V}$, za $-3\text{V} \leq v_G \leq -1.4\text{V}$ (IOP- lin. režim, D_1 -OFF, Q_1 -OFF, D_2 -ON, Q_2 -DAR);

$v_I[\text{V}] = -v_G[\text{V}]$, za $-1.4\text{V} \leq v_G \leq 1.4\text{V}$ (IOP- lin. režim, D_1 -OFF, Q_1 -OFF, D_2 -OFF, Q_2 -OFF);

$v_I[\text{V}] = -V_D - V_{BE} = -1.4\text{V}$, za $1.4\text{V} \leq v_G \leq 3\text{V}$ (IOP- lin. režim, D_1 -ON, Q_1 -DAR, D_2 -OFF, Q_2 -OFF).