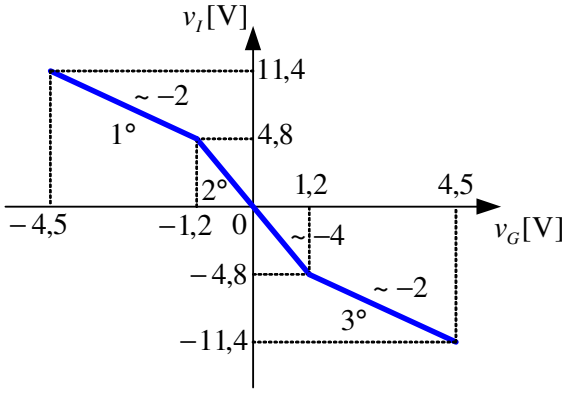
REŠENJA ZADATAKA

1.

$v_I[\mathrm{V}] = -2v_G[\mathrm{V}] + 2.4$, za $-4.5\mathrm{V} \le v_G \le -1.2\mathrm{V}$ (IOP- lin. režim, D_1-OFF, D_2-ON);

$v_I[\mathrm{V}] = -4v_G[\mathrm{V}]$, za $-1.2\mathrm{V} \le v_G \le 1.2\mathrm{V}$ (IOP-lin. režim, D_1-OFF, D_2-OFF);

$v_I[\mathrm{V}] = -2v_G[\mathrm{V}] - 2.4$, za $1.2\mathrm{V} \le v_G \le 4.5\mathrm{V}$ (IOP-lin. režim, D_1-ON, D_2-OFF);



3. a) $I_E = 2\mathrm{mA}$, $I_B = 19{,}8\mu\mathrm{A}$, $I_C = 1{,}98\mathrm{mA}$, $V_E = -0{,}6\mathrm{V}$, $V_C = 6{,}04\mathrm{V}$.

b) $a_i = i_p / i_g = 0{,}2475$.

c) $R_{ul} = 262{,}6\Omega$, $R_{izl} = 2\mathrm{k}\Omega$.

5. a) $I_1 = 4\mathrm{mA}$; $I_3 = 8\mathrm{mA}$

b) $B_1 = 8\mathrm{mA/V}^2$