

REŠENJA ZADATAKA**1.**

$$i_X [\text{mA}] = 0, \text{ za } 0 \leq v_X \leq 0.6\text{V (D-OFF, T-OFF);}$$

$$i_X [\text{mA}] = 10.1v_X [\text{V}] - 6.06, \text{ za } 0.6\text{V} \leq v_X \leq 1.2\text{V (D-OFF, T-DAR);}$$

$$i_X [\text{mA}] = 30.3v_X [\text{V}] - 30.3, \text{ za } 1.2\text{V} \leq v_X \leq 3\text{V (D-ON, T-DAR);}$$

$$i_X [\text{mA}] = 20.3v_X [\text{V}] - 0.3, \text{ za } 3\text{V} \leq v_X \leq 20\text{V (D-ON, T-zasićenje).}$$

4.

$$\text{a) } R_{S1} = 3.3\text{k}\Omega \quad R_{D2} = 6.7\text{k}\Omega \quad R_{S3} = 5\text{k}\Omega \quad R_{D1} = 4.1\text{k}\Omega \quad R_{S2} = 2.4\text{k}\Omega$$

$$\text{b) } R_{izl} = R_{S3} \parallel \frac{1}{g_{m3}} \approx 455\Omega$$