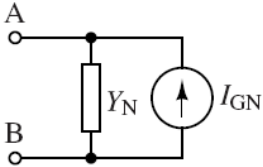


REŠENJA

1.

a) Parametri ekvivalentnog Nortonovog generatora su $\underline{I}_{GN} = (100 + j0) \text{ mA}$, $\underline{Y}_N = 0$.
Šema generatora prikazana je na slici.



b) $\underline{U}_X = j \text{ V}$, $u_X(t) = \sqrt{2} \cos(\omega t + 90^\circ) \text{ V}$,

c) $P_X = 0$, $Q_X = 100 \text{ mvar}$, $S_X = 100 \text{ mVA}$, $\underline{S}_X = j100 \text{ mVA}$.

2.

$v_I [\text{V}] = 0.4i_G [\text{mA}] + 1.76$, za $-5 \text{ mA} \leq i_G \leq -4.4 \text{ mA}$ (DZ - proboj)

$v_I [\text{V}] = 0$, za $-4.4 \text{ mA} \leq i_G \leq 1.4 \text{ mA}$ (DZ - OFF)

$v_I [\text{V}] = 0.4i_G [\text{mA}] - 0.56$, za $1.4 \text{ mA} \leq i_G \leq 5 \text{ mA}$ (DZ - direktno polarisana)

3. a) $a_v = 1/7$,b) $A_v = 1/5$,c) $P_1 = 1 \text{ mW}$ d) $P = 0.1 \text{ W}$ 4. a) $a_{v1} = 1$ b) $a_{v2} = 5$