

**Rezultati zadataka sa ispita iz Elektrotehnike dana 13.07.2026. -
Škatarić**

1. $Q = -2 \text{ nC}$.
2. (a) $P_E = 6 \text{ mW}$, (b) $P_{I_g} = 4 \text{ mW}$ i (c) $P_{\text{Juk}} = 10 \text{ mW}$.
3. $I_1 = 64 \text{ A}$ u smeru kretanja kazaljke na časovniku.
4. (a) $\bar{Z}_e = 2 \Omega$, (b) $\bar{I}_1 = j\frac{5\sqrt{2}}{2} \text{ A}$ i $i_1(t) = 5 \cos(\omega t + \pi/2) \text{ A}$, $\bar{I}_2 = \frac{5\sqrt{2}}{2} \text{ A}$
i $i_2(t) = 5 \cos(\omega t) \text{ A}$, $\bar{I} = \frac{5\sqrt{2}}{2} (1 + j) \text{ A}$ i $i(t) = 5\sqrt{2} \cos(\omega t + \pi/4) \text{ A}$, (c)
 $P = 50 \text{ W}$, $Q = 0$ i $S = 50 \text{ VA}$.