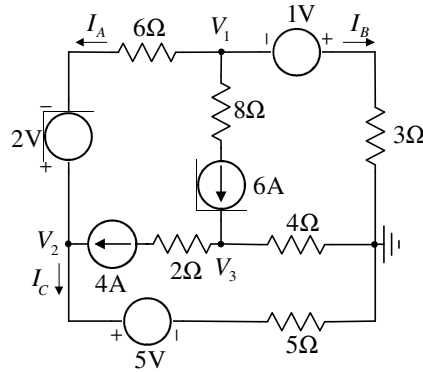


# Osnovi elektronike SI

## Rešenja zadataka – ispit 28.01.2010.

### 2. zadatak

a)



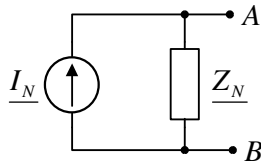
$$V_1 = -10\text{V}; V_2 = 10\text{V}; V_3 = 8\text{V}; I_A = -3\text{A}; I_B = -3\text{A}; I_C = 1\text{A}.$$

b)  $P_{2V} = -6\text{W}; P_{1V} = -3\text{W}; P_{5V} = -5\text{W}; P_{4A} = 40\text{W}; P_{6A} = 396\text{W}$

### 4. zadatak

a)  $\underline{Z}_N = \left(\frac{9}{4} - \frac{j3}{4}\right)\Omega$

$$\underline{I}_N = \left(\frac{8}{5} + \frac{j6}{5}\right)\text{A}$$



b)  $\underline{S} = \frac{5}{2} + j\frac{5}{6}; P = \frac{5}{2}\text{W}; Q = \frac{5}{6}\text{VAr}.$

### 8. zadatak

$$v_x = 0; v_y = v_1 + v_2$$