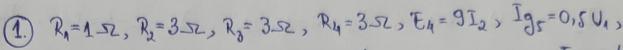
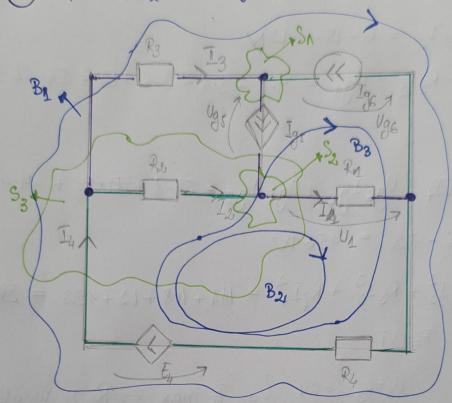
## TEMA SEMINAR 2





N=4, L=6 N-1 => 3 ramwi L-N+1 => 3 latura A= { 2, 4, 6} C= { 1, 5, 3 }

(S<sub>1</sub>): 
$$-\overline{1}_{3} - \overline{1}_{96} + \overline{1}_{95} = 0 = \overline{1}_{95} = 4 + \overline{1}_{3}$$

$$(S_2): -I_2 + I_1 - I_{95} = 0$$

$$(S_3): -I_4 + I_1 + \overline{I}_3 - \overline{I}g_5 = 0$$

$$\frac{(0-12)}{12} = R_3 I_3 - R_2 I_2 - U_{95} = 0 = 0 = 0 = 0 = 0$$

$$\frac{4 - \overline{1} + \overline{1}}{1} = 0,5 \cup_{1} = 0,5 \cdot \overline{1},R_{1} = 0,5 \cdot \overline{1},R_{2} = 0,5 \cdot \overline{1},R_{1} = 0,5 \cdot \overline{1},R_{2} = 0,5 \cdot \overline{1},R_$$

$$\begin{split} & I_{2} = I_{1} - 0_{1} S I_{1} = 0_{1} S I_{1} \\ & R_{2} I_{2} + U_{A} + R_{4} I_{4} - E_{4} = 0 \quad \Rightarrow \quad 3 \cdot 0_{1} S I_{1} + I_{1} + 3 (I_{1} - I_{1}) - 9 \cdot 0_{1} S I_{1} = 0 \Rightarrow \\ & \Rightarrow I_{2} = I_{1} + I_{1} + 3 I_{1} - I_{2} - I_{2} S I_{1} = 0 \Rightarrow I_{1} = I_{2} A \\ & I_{2} = 0_{1} S \cdot I_{2} = GA \quad , \quad I_{3} = G - I_{4} = 2A \quad , \quad I_{4} = I_{2} - I_{4} = 8A \quad , \quad I_{3} = GA \\ & U_{3} G_{5} = R_{3} I_{3} - R_{2} I_{2} = G - I_{8} = -I_{2} N \\ & U_{3} G_{6} = E_{4} - R_{4} I_{4} - R_{2} I_{2} - U_{3} G_{5} = 9 \cdot G - 3 \cdot 8 - 3 \cdot G \cdot + I_{2} = 54 \cdot 24 - I_{8} + I_{2} = \\ & = 24 V \\ & P_{3} = E_{4} I_{4} + I_{4} + I_{5} G_{5} I_{5} + I_{5} G_{5} I_{5} G_{5} + I_{5} G_{5} I_{5} G_{5} + I_{5} G_{5} G_$$

2)  $R_1 = 1.52$ ,  $R_2 = 2.52$ ,  $R_3 = 3.52$ ,  $R_4 = 1.52$ ,  $E_5 = 26V$ ,  $I_{36} = 4.\overline{1}_{3}$ .

N=4, L=6

N-1 => 3 howwrite

L-N+1 => 3 Coturu

A= $\{3, 2, 5\}$ C =  $\{1, 4, 6\}$ Results

Result

U3=R313=6V

 $U_4 = R_4 I_4 = 24$ 

U= R. I = 12V

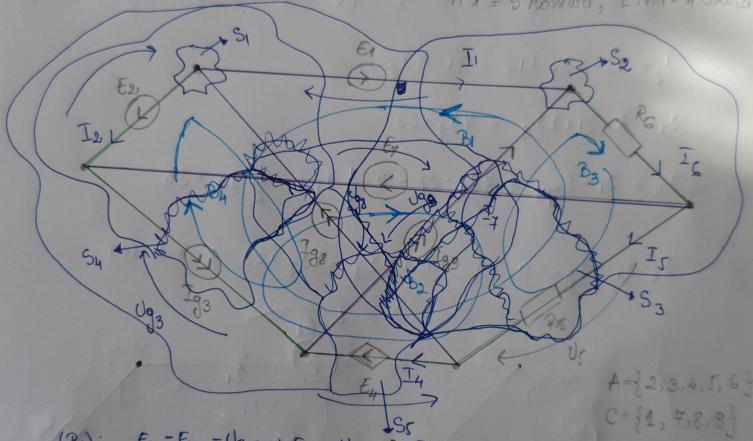
U2 = R2 I2 = 18V

(=> P4 max => R4 le ducoleerte

cel moi mut.

$$U_{\Lambda} = R_1 I_1 = 14V$$
  $U_3 = R_3 I_3 = -6V$ 

$$U_1 = R_1 I_1 = 14V$$
  $U_3 = R_3 I_3 = -6V$   $J = 0.02 \text{ max } = 0.02$   $U_2 = R_2 I_2 = 20V$   $U_4 = R_4 I_4 = 12V$   $J = 0.02$   $R_3$  & Rucolzeste cel mai mult.



(B1): E1-E2-Ug3+E4-Us-R6I6=0

(B2): Ex +U5 - E4 + U93 = 0

(B3): RsIs+Us-E4-Ugg=0

(B4): E2+Ug8-E4+Ug3=0

$$= \frac{T_6}{R_6} = \frac{E_1 - E_2 + E_4}{R_6} =$$

$$= \frac{12-42+17 I_S}{2} = -15+7 I_S$$

$$(S_4): \frac{1}{-1} = \frac{1}{98} + \frac{1}{93} = 0$$
  $I_{93} - I_{98} - I_{1} - I_{4} = 0$ 

=> 
$$I_5 + 2I_4 - I_{93} = 0 => I_5 = I_{93} - 2I_4 => I_4 = \frac{14 - I_5}{2} = 1 - \frac{1}{2}I_5$$

$$I_1 = 8 - 31 + II_S = II_S - 23$$

$$I_4 = I_1 - I_3 = 4I_1 - 23 - 4 + \frac{1}{2}I_1 = \frac{15}{2}I_5 - 30$$

$$I_{6}-I_{1}-I_{3}=0 = 0 - 15+7I_{5}-7I_{5}+23-8 = 0$$
 (A)

