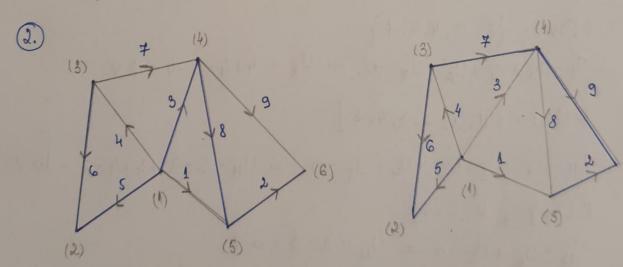
TEMA CURS 3

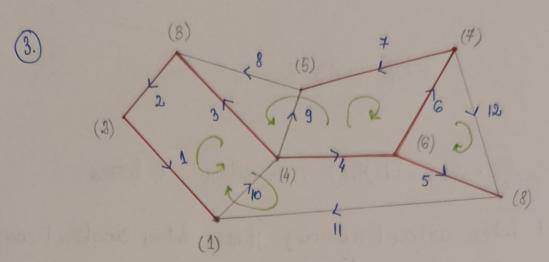
- 1. Grof. conex G(N,L): n-noduri, l-laturi
- a) N-1 laturi arbore (ramwii); f. N+1 laturi coorbore (coorde).
- 6) rur bucle = rur coorde = 1 l-141 bucle
- comex. Coarbone le poate fi subgraf reconex desarece trece pur docte laturile care mu fac parte din aubore, se pot exclude noduri.
- d) Buche se stobilese ûn functie de coorde. Coorboule poesintà buch, arbonele poble contine.



 $C = \{1, 4, 7, 9\}$ $L(B_1) = \{4, 5, 6\}, L(B_2) = \{7, 6, 5, 3\}, L(B_3) = \{1, 3, 8\},$

L(B4) = { 9, 8, 2 }.

* Se pot alege mai multi arbori du aforia de cui doi.



 $U_{A}=6V$, $U_{2}=-2V$, $U_{3}=4V$, $U_{4}=-4V$, $U_{5}=2V$, $U_{6}=2V$, $U_{4}=4V$. Aplicam papel 4 din algorithm (TK-2):

L(B)={10,1,2,3}

U10+U3+U2+U1=0 => 40=-4+2-6= -8V

L(B2) = { 9, 4, 6, 7}

Ug - U4 - U6 - U4 = 0 = Ug = 4+2+4 = Dev

L(B3) = {8, 3, 4, 6, 7}

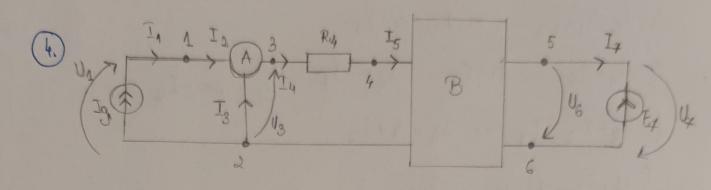
U8-03+U4+U6+U4=0 =1 U8 = 4+4-2-4 = 2V

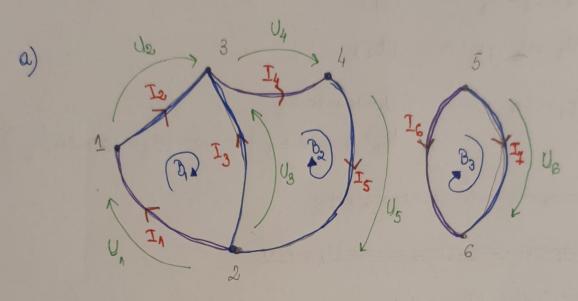
L (B4) = { 11, 1, 2, 3, 4, 5}

Un -01 -02-03 +04+05=0 = 011=6-2+4+4-2=101

L (Bs) = { w, 6,5}

U12 - U5 + U6 =0 => U12 = 2 - 2 = 0 1





$$C) \quad \underline{I}_{g_{A}} = 4A, \quad R_{4} = 4-\Sigma, \quad E_{4} = 12V, \quad \begin{bmatrix} U_{2} \\ U_{3} \end{bmatrix} = R_{A} \begin{bmatrix} \underline{I}_{2} \\ \underline{I}_{3} \end{bmatrix}, \quad \begin{bmatrix} \underline{I}_{5} \\ \underline{I}_{6} \end{bmatrix} = H_{5} \begin{bmatrix} U_{5} \\ \underline{I}_{6} \end{bmatrix} \quad ; \quad H_{8} = \begin{bmatrix} 2 & -1 \\ 3 & 0 \end{bmatrix} \quad ; \quad R_{A} = \begin{bmatrix} 5 & 20 \\ 2 & 10 \end{bmatrix}$$

$$\begin{bmatrix} \overline{1}s \\ 0c \end{bmatrix} = \begin{bmatrix} 2 & -1 \\ 3 & 0 \end{bmatrix} \begin{bmatrix} 0s \\ \overline{1}c \end{bmatrix} \implies \begin{cases} \overline{1}s = 20s - \overline{1}c \\ 0c = 30s \implies 0s = \frac{0c}{3} \end{cases}$$

$$\begin{bmatrix} 02 \\ 03 \end{bmatrix} = \begin{bmatrix} 5 & 20 \\ 2 & 10 \end{bmatrix} \begin{bmatrix} \overline{1}2 \\ \overline{1}3 \end{bmatrix} \implies \begin{cases} 02 = 5\overline{1}2 + 20\overline{1}3 \end{cases}$$

$$03 = 2\overline{1}2 + 10\overline{1}3$$

$$I_{S} = \overline{I}_{1} + \overline{I}_{S} = T_{S} = 4 + \overline{I}_{S}$$

$$I_{A} = I_{S} , T_{1} = \Gamma_{A} , I_{G} = -\overline{I}_{A}$$

$$I_{A} = I_{S} , T_{1} = \Gamma_{A} , I_{G} = -\overline{I}_{A}$$

$$I_{A} + \Gamma_{S} = I_{A} = T_{A} = 4 + \Gamma_{S}$$

$$I_{A} + \Gamma_{A} = I_{A} = T_{A} = 4 + \Gamma_{A}$$

$$I_{A} + \Gamma_{A} = \Gamma_{$$