$$\begin{bmatrix}
 2 & 2 & 3 \\
 1 & -1 & 0 \\
 -1 & 2 & 1
 \end{bmatrix}
 \begin{bmatrix}
 x_1 & 3 \\
 x_2 & = -1 \\
 x_3 & 2
 \end{bmatrix}$$

$$A \qquad \chi = 6$$

Roxpipzac uktad noumant metoob elémemagi Genesso

Knok 1 
$$N_2^1 = N_2 - \frac{1}{2} N_1 + \frac{1}{3} = N_3 + \frac{1}{2} N_4$$

Knok 2

$$\begin{bmatrix} 2 & 2 & 3 & 3 \\ 0 & -2 & -\frac{3}{2} & \frac{5}{4} \\ 0 & 0 & \frac{1}{4} & -\frac{1}{4} \end{bmatrix} \xrightarrow{f} \begin{array}{c} 1 \\ 4 \\ 3 \\ 3 \end{array} = -1$$

$$-2x_2 = -\frac{5}{2} + \frac{3}{2} \cdot \left(-1\right)$$

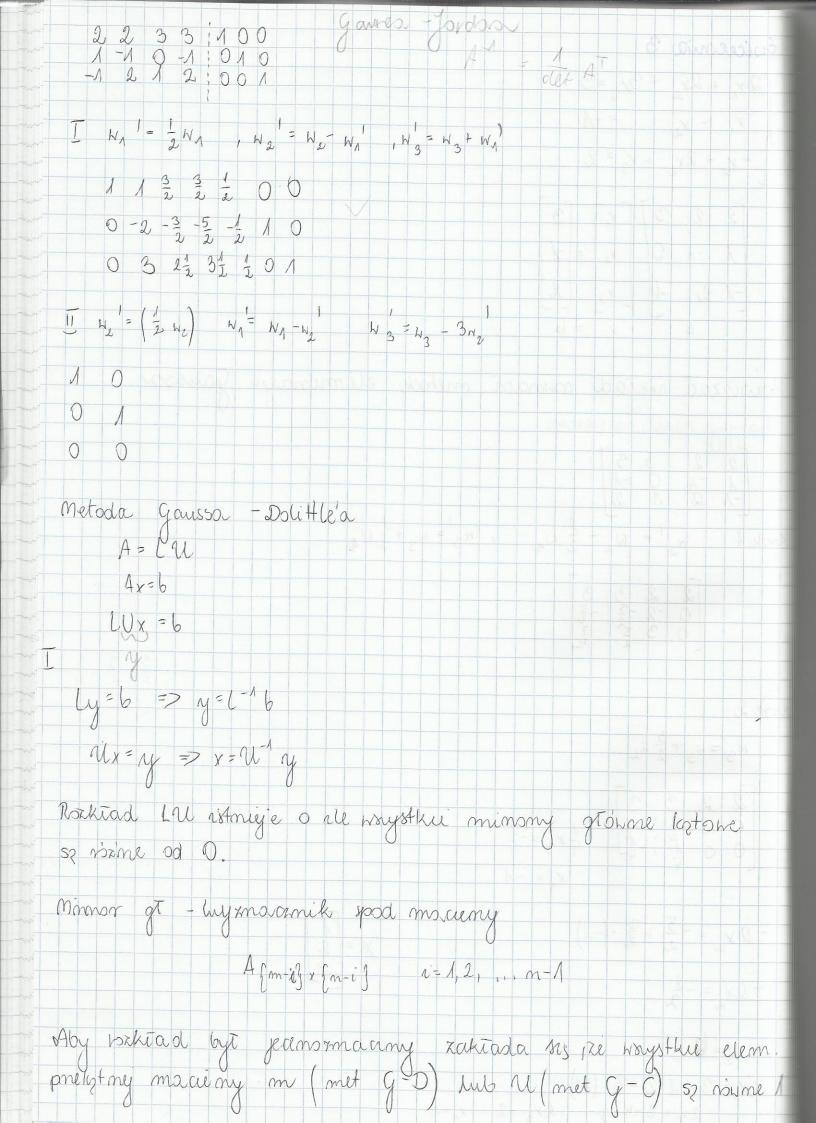
$$-2x_{2}=-\frac{8}{3}$$

$$2x_1 = 3 - 2 \cdot 2 - 3 \cdot (-1)$$

$$2x_1 = 3 - 4 + 3$$
  $2x_1 = 2$   $x_1 = 1$ 

$$X = \begin{bmatrix} 1 \\ 2 \\ -1 \end{bmatrix}$$

$$X = \begin{bmatrix} 1 \\ 2 \\ -1 \end{bmatrix}$$



Mij = aij - Si Mje lik Wej dla j & ai+1, ..., m lij = 1 (aj: - E ljk m;) dla j & fi+1,... m  $\begin{bmatrix} 1 & 0 & 0 \\ \frac{1}{2} & 1 & 0 \end{bmatrix} \begin{bmatrix} 2 & 2 & 3 \\ 0 & -2 & \frac{3}{2} \end{bmatrix}$ 1007 1 1 0 0 4 Roxtoxye macien na iboryn macieny troj kt nej W1=121=2  $H_2 = \begin{pmatrix} 2 & 2 \\ 1 & -1 \end{pmatrix} = -4$ mysthie sy +0 higo wakters ritamegie clet(A) = -2 + 6 - (3+2) = -1 +0  $a_{11} = a_{11} - \sum_{k=1}^{1/1} = 2$ M12 = Q12 = 21 MA3 = a13 = 3  $\frac{1}{\sqrt{21}} = \frac{1}{\sqrt{1}} \cdot 1 = \frac{1}{2}$ j=2 j=3 (3) = 1 . a31 = 1. (-1) = -1  $u_{22} = a_{22} - \sum_{k=1}^{2} l_{2k} u_{k2} = a_{22} - l_{21} u_{12} = -1 - \frac{1}{2} \cdot 2 = -2$   $u_{23} = c_{23} - l_{21} \cdot u_{13} = 0 - \frac{1}{2} \cdot 3 = -\frac{3}{2}$ 1=2  $l_{32} = \frac{1}{u_{12}} \left( a_{32} - l_{31} u_{12} \right) = \frac{1}{2} \left[ 2 - \left( -\frac{1}{2} \right) \cdot 2 \right] = -\frac{1}{2} \left( 2 + 1 \right) = -\frac{3}{2}$  $u_{33} = a_{33} - \sum_{\mathbf{k}=1}^{3} l_{3k} u_{k3} = a_{33} - (l_{31} u_{13} + l_{32} \cdot u_{23}) = 1$ C=3 1=3