

Metoda Banachiewicza-Cholesky'ego

ORIGIN := 1

Grupa B1

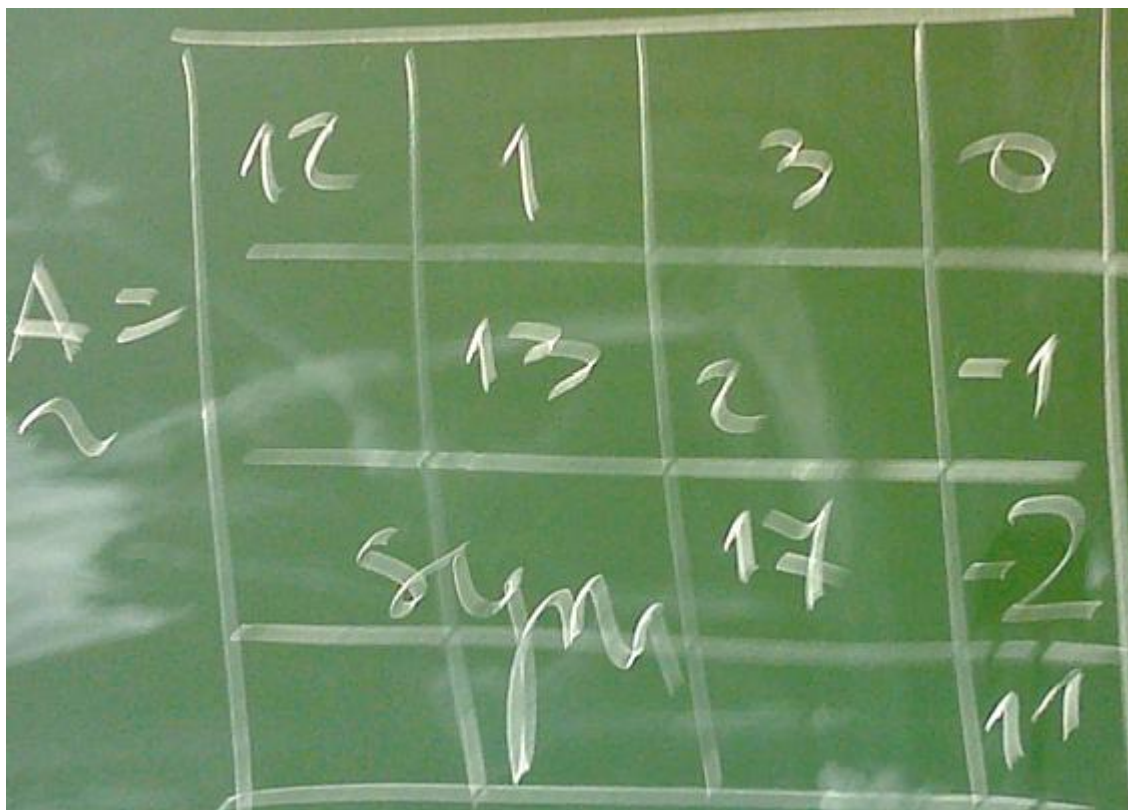


$$A := \begin{pmatrix} 10 & 2 & 3 & 0 \\ 2 & 11 & -1 & 2 \\ 3 & -1 & 15 & -1 \\ 0 & 2 & -1 & 12 \end{pmatrix}$$

$$L := \text{cholesky}(A)$$

	1	2	3	4
1	3.162	0	0	0
2	0.632	3.256	0	0
3	0.949	-0.491	3.723	0
4	0	0.614	-0.188	3.404

Grupa B2



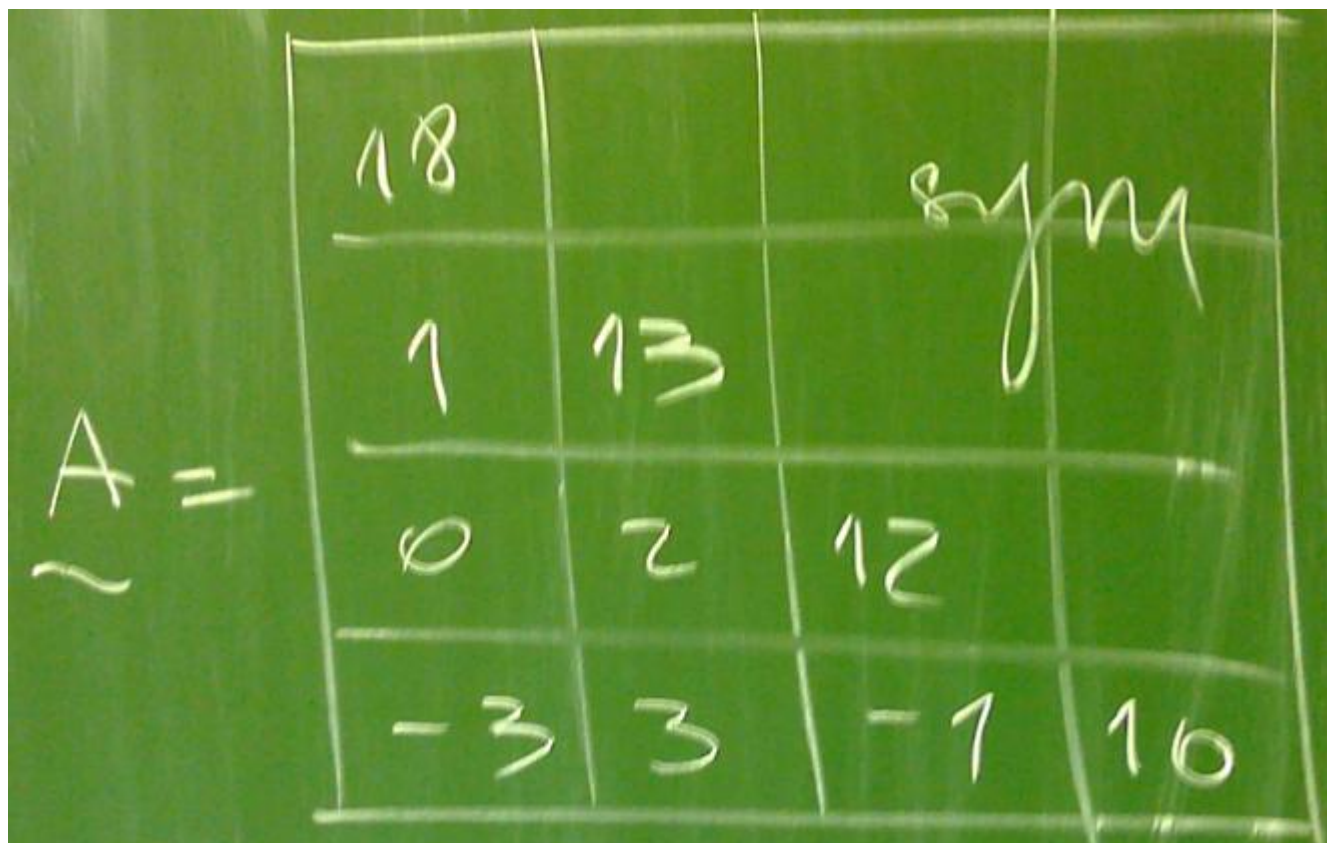
$$A := \begin{pmatrix} 12 & 1 & 3 & 0 \\ 1 & 13 & 2 & -1 \\ 3 & 2 & 17 & -2 \\ 0 & -1 & -2 & 11 \end{pmatrix}$$

$L := \text{cholesky}(A)$

$L =$

	1	2	3	4
1	3.464	0	0	0
2	0.289	3.594	0	0
3	0.866	0.487	4.002	0
4	0	-0.278	-0.466	3.272

Grupa A1



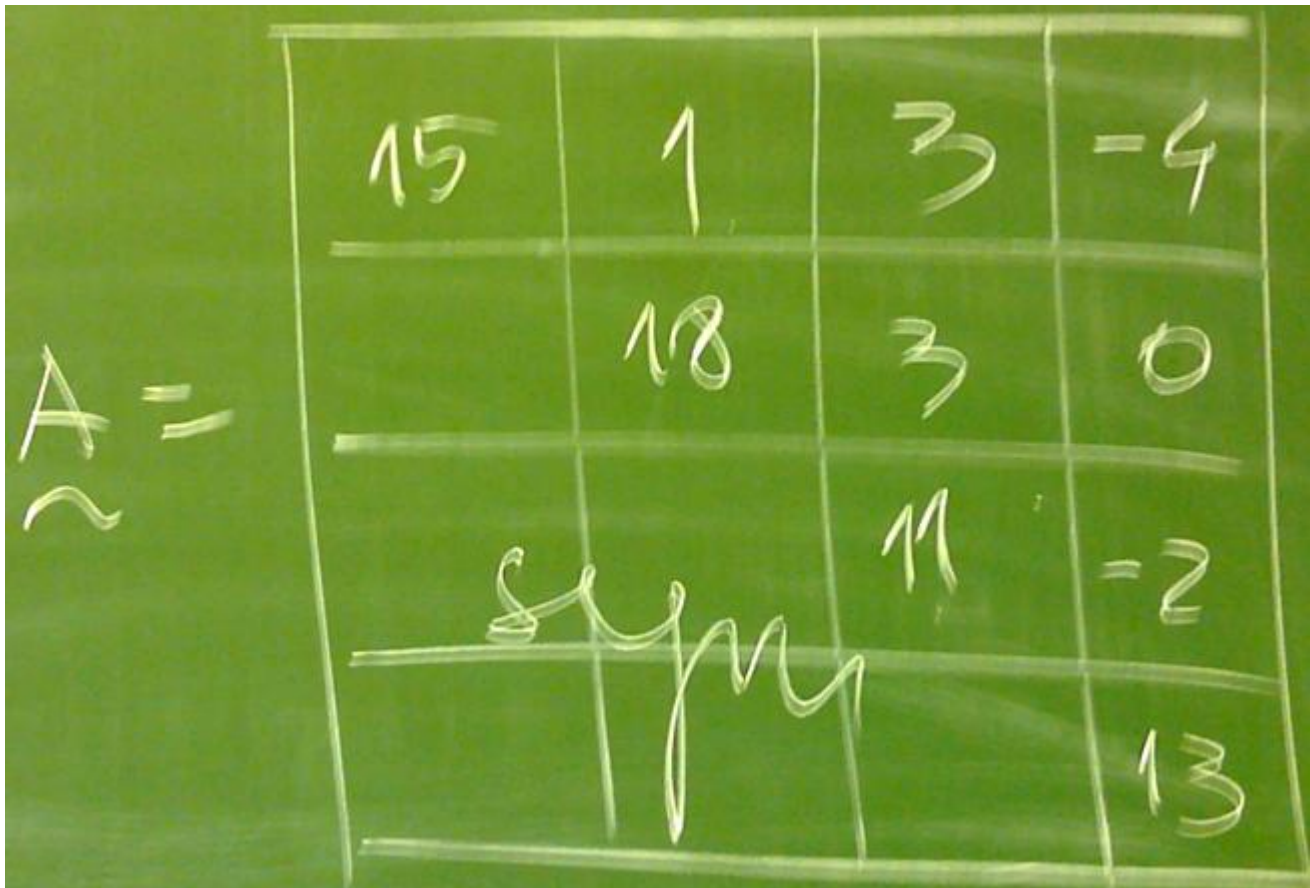
$$A := \begin{pmatrix} 18 & 1 & 0 & -3 \\ 1 & 13 & 2 & 3 \\ 0 & 2 & 12 & -1 \\ -3 & 3 & -1 & 10 \end{pmatrix}$$

`L := cholesky(A)`

L =

	1	2	3	4
1	4.243	0	0	0
2	0.236	3.598	0	0
3	0	0.556	3.419	0
4	-0.707	0.88	-0.436	2.922

Grupa A2



$$A := \begin{pmatrix} 15 & 1 & 3 & -4 \\ 1 & 18 & 3 & 0 \\ 3 & 3 & 11 & -2 \\ -4 & 0 & -2 & 13 \end{pmatrix}$$

`L := cholesky(A)`

L =

	1	2	3	4
1	3.873	0	0	0
2	0.258	4.235	0	0
3	0.775	0.661	3.156	0
4	-1.033	0.063	-0.393	3.431