N I. 7 (14 Ban) $A = \begin{pmatrix} 6 & 7 & 3 \\ 3 & 10 \end{pmatrix} \quad B = \begin{pmatrix} 2 & 0 & 5 \\ 4 & -1 & -2 \end{pmatrix} \quad 2 & 2 & 1$ 2 6 7 3 1 0 0 0 1 1 4 2 1 1 - 7 - 7 2 2 1 0 0 1 0 ~ 1 4 2 | 1 - 1 - 7 | (7 4 2 | 1 - 7 - 7) 2 0 - 11 - 6 | - 3 4 3 | 2 0 1 0 | 1 0 - 3 | 2 0 - 6 - 3 | - 2 2 3 | 0 - 6 - 3 | - 2 2 3

3)
$$B = \begin{pmatrix} 2 & 0 & 5 \\ 4 & 1 & 1 & 2 \\ 4 & 3 & 7 \end{pmatrix}$$
 $B = \begin{pmatrix} 2 & 0 & 5 \\ 4 & 1 & 1 & 2 \\ 4 & 3 & 7 \end{pmatrix}$
 $B = \begin{pmatrix} 2 & 0 & 5 \\ 16 & -6 & -2 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 16 & -6 & -2 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 16 & -6 & -2 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 16 & -6 & -2 \end{pmatrix}$
 $B = \begin{pmatrix} 2 & 0 & 5 \\ 18 & 1 & 5 \end{pmatrix}$
 $B = \begin{pmatrix} 2 & 0 & 5 \\ 4 & -1 & 2 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ -36 & -6 & 24 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 18 & 1 & 5 \end{pmatrix}$
 $B = \begin{pmatrix} 2 & 0 & 5 \\ 4 & -1 & 2 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & -6 & -2 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & -6 & -2 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & -6 & -2 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & -6 & -2 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & -6 & -2 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & -6 & -2 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & -6 & -2 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & -6 & -2 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & -6 & -2 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & -6 & -2 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & -6 & -2 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & -6 & -2 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & -6 & -2 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & -6 & -2 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & -6 & -2 \end{pmatrix}$
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 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & -6 & -2 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & -6 & -2 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & -6 & -2 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & -6 & -2 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & -6 & -2 \end{pmatrix}$
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 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & -6 & -2 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & -6 & -2 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & -6 & -2 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & -7 & -7 \\ 3 & 7 & 7 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & 7 & 7 \\ 3 & 7 & 7 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & 7 & 7 \\ 3 & 7 & 7 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & 7 & 7 \\ 3 & 7 & 7 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & 7 & 7 \\ 3 & 7 & 7 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & 7 & 7 \\ 3 & 7 & 7 \end{pmatrix}$
 $B = \begin{pmatrix} -7 & 15 & 5 \\ 4 & 7 & 7 \\ 3 & 7 & 7 \end{pmatrix}$
 $B = \begin{pmatrix} -$

= (113 89 33) 3 4 30 16) $\sqrt{11.7} (19 km.)$ 1) | 2 - 3 7 4 | 9 - 2 2 2 = -9. | -3 7 4 | 12 7 4 | 1 8 9 - 2. | 6 8 9 | 10 9 6 2 $-2 \cdot \begin{vmatrix} 2 - 3 & 4 \\ 6 & 1 & 9 \end{vmatrix} + 2 \begin{vmatrix} 2 - 3 & 7 \\ 6 & 7 & 8 \end{vmatrix} =$ = -4 (- | 74 + 8 | -3 4 | -9 | -3 7 | --2(2.1891-169+41681)--2 (2 | 7 9 | +3 | 6 9 | + 4 | 6 7 |) + +2(2 | 18 | +3 | 68 | + | 6 1 |) = 2-4.44+2.774+2.246-2.770=324

```
+8 2 -3 4 | 2 -3 4 | = 10 9 2 | 6 7 9 |
= (4 | 1 0 | +2 | 6 9 | +2 | 6 7 |) -
-2(2. | 7 0 | +3 | 6 0 | +4 | 6 7 | ) +
+8(2-1-22 +3 | 4 2 + 4 | 4 -2 | ) -
-6/2.1-22/+3/42/+4/4-21)=
    -264 + 2-246 + 8-84 -6-96= 324
3) 2 - 3 7 4 | 12 - 3 7 4 |

4 - 2 2 2 = 0 4 0 - 6 = 

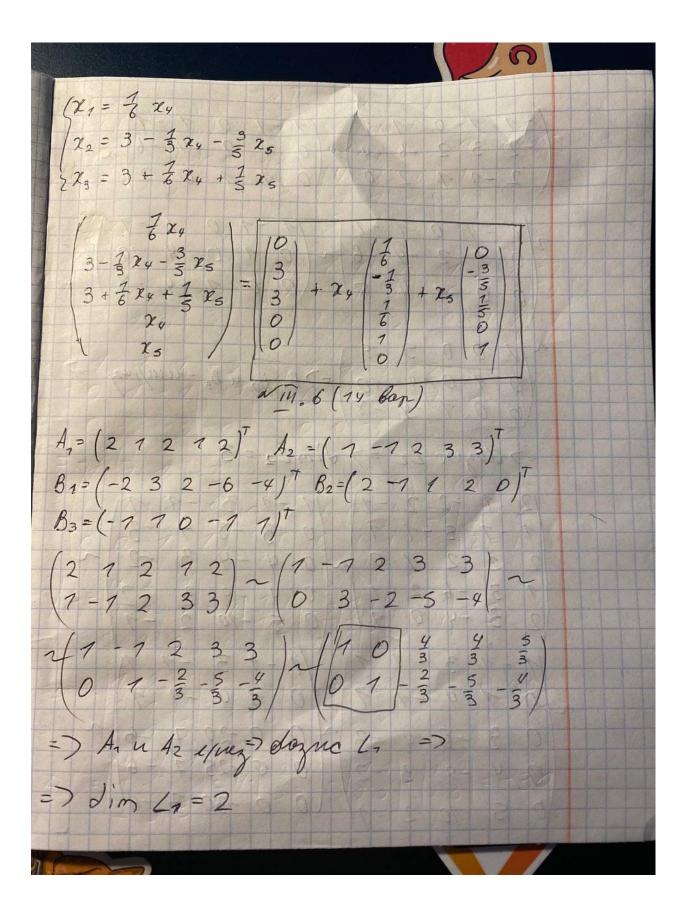
6 7 8 9 = 0 10 5 - 3 | 

70 9 6 2 | 0 79 7 - 18

\begin{vmatrix}
2 - 3 & 7 & 4 & | & 2 - 3 & 7 & 4 \\
0 & 4 & 0 - 6 & | & 0 & 4 & 0 - 6 \\
0 & 0 & 5 & 12 & | & 0 & 0 & 5 & 72 \\
0 & 0 & 7 & 10,5 & | & 0 & 0 & 8,1
\end{vmatrix}
```

NII. 2 (14 Cap) $\begin{cases} 2x + 2y + 2 = 1 & 3anweu & buoe: \\ x + y + 2 = -2 & wanywinou & buoe: \\ 2x + y + 3z = 3 & (421 | 1) \\ 27 & 1 | -2 \\ 27 & 3 | 3 \end{cases}$ 1 1 7 7 1 - 2 (1 1 1 1 - 2) 0 1 - 7 - 7 ~ 0 1 - 1 - 7 ~ 0 - 2 - 3 9 0 0 - 5 - 5) 67= 1 2 7 = |11 | -2 | -21 | + |-2 1 | = 75 $DY = \begin{vmatrix} 4 & 1 & 1 \\ 1 & -2 & 1 \\ 2 & 3 & 3 \end{vmatrix} = 4 \cdot \begin{vmatrix} -2 & 1 \\ 3 & 3 \end{vmatrix} - \begin{vmatrix} 2 & 1 \\ 2 & 3 \end{vmatrix} + \begin{vmatrix} 1 & -2 \\ 2 & 3 \end{vmatrix} = -30$

 $\begin{vmatrix} 4 & 2 & 7 \\ 7 & 7 & -2 \\ 2 & 7 & 3 \end{vmatrix} = 4 \cdot \begin{vmatrix} 7 - 2 \\ 7 & 3 \end{vmatrix} - 2 \cdot \begin{vmatrix} 7 - 2 \\ 2 & 3 \end{vmatrix} + \begin{vmatrix} 7 & 7 \\ 2 & 1 \end{vmatrix} = 5$ Y= = = = = 3 y = = 30 = -6 2= 5= 7 Chory zaning b wangwinen buge 27



 $\begin{bmatrix}
 1 & -1 & 0 & 7 & -1 \\
 0 & 7 & 2 & -9 & -6 \\
 0 & 0 & -7 & 4 & 8
 \end{bmatrix}
 \begin{bmatrix}
 1 & -7 & 0 & 7 & -7 \\
 0 & 1 & 0 & 9 & 10 \\
 0 & 0 & 7 & -9 & -8
 \end{bmatrix}$ 10059 010410 => B, B, u B3 - uniprez => -> dozuc Lz => Jim Lz = 3 17 - 1 3 - 1 1 0 7 9 - 1 7 0 3 - 8 9 - 3 0 9 - 9 3 - 2 1-13-17 0 1 4 -1 1 0 0 -20 7 -6 0 0 -25 7 -6 0 0 -30 7 -6

 $\begin{vmatrix}
1 & -1 & 3 & 0 & \frac{1}{7} & | 1 & -1 & 0 & 0 & \frac{1}{7} \\
0 & 1 & 4 & 0 & \frac{1}{7} & | 0 & 1 & 0 & 0 & \frac{1}{7} \\
0 & 0 & 1 & 0 & 0 & | 0 & 0 & 1 & 0 & 0 \\
0 & 0 & 0 & 1 & -\frac{6}{7} & | 0 & 0 & 0 & 1 & -\frac{6}{7} \\
1 & 0 & 0 & 0 & \frac{7}{7} & | & 2 & 3 & 3 & 3 & 3 \\
0 & 0 & 0 & 0 & \frac{7}{7} & | & 2 & 3 & 3 & 3 & 3 & 3 \\
0 & 0 & 0 & 0 & 0 & \frac{7}{7} & | & 2 & 3 & 3 & 3 & 3 & 3 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
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0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
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0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
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0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 &$ => A, A, B, B, B, wonc imprez -> $\begin{vmatrix} -6 \\ 7 \end{vmatrix} = \int dim \left(l_1 + l_2 \right) = 4$ $(A_1 A_2) \cdot \begin{pmatrix} -\frac{2}{7} \\ -\frac{1}{7} \end{pmatrix} = -\frac{2}{7} A_1 - \frac{7}{7} A_2 = 0$ => A1, A2 - dozuc L1/1 L2 => lm (L1/1L2)=2 72