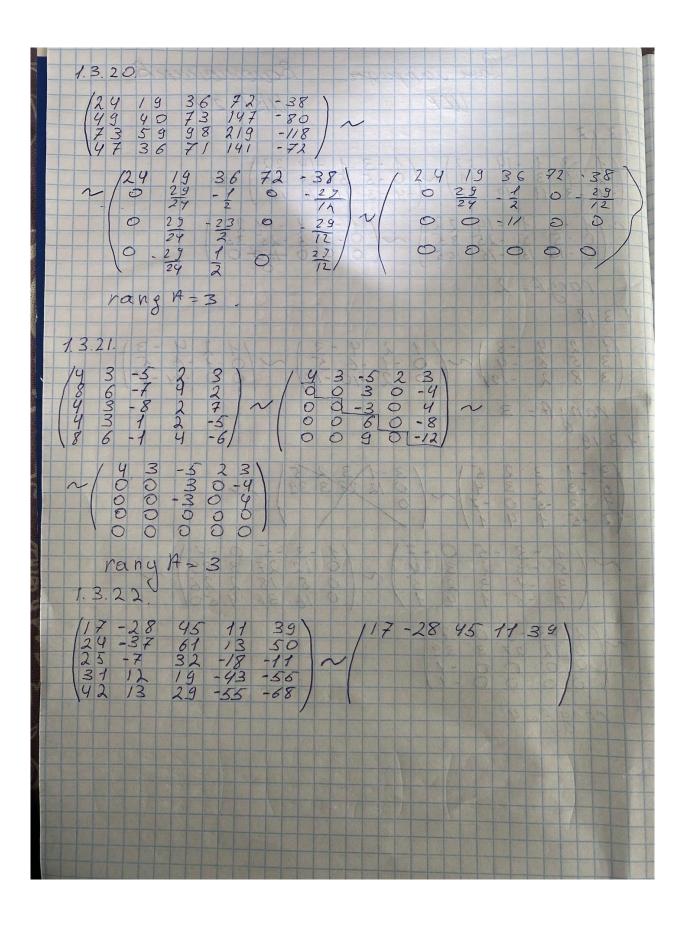
Ванжини В. UBT 2.1. rangh = 2 $\begin{pmatrix}
1 & 2 & 9 & -3 \\
3 & 5 & 6 & -9 \\
3 & 8 & 2 & -19
\end{pmatrix}
\sim
\begin{pmatrix}
1 & 2 & 9 & -3 \\
0 & -1 & -6 & 5 \\
0 & 2 & -10 & -10
\end{pmatrix}
\sim
\begin{pmatrix}
1 & 2 & 9 & -3 \\
0 & -1 & -6 & 5 \\
0 & 0 & -19 & -7
\end{pmatrix}$ $\begin{pmatrix}
3 & -1 & 3 & 2 & 5 \\
5 & -3 & 2 & 3 & 4 \\
1 & -3 & -5 & 0 & -7 \\
7 & -5 & 1 & 4 & 1
\end{pmatrix}$ $\begin{pmatrix}
1 - 3 - 5 & 0 - 7 \\
5 - 3 & 2 & 3 & 4 \\
3 - 1 & 3 & 2 & 5 \\
7 - 5 & 1 & 4 & 1
\end{pmatrix}$ $\begin{pmatrix}
1 - 3 - 5 & 0 - 7 \\
0 & 12 & 27 & 3 & 39 \\
0 & 8 & 18 & 2 & 26 \\
0 & 16 & 36 & 4 & 50
\end{pmatrix}$ range = 4



```
\( \begin{pmatrix} 3 & -1 & 2 \\ 9 & -3 & 3 \\ 1 & 3 & 2 \end{pmatrix} \)
     |-3 3 | = -6-9 = -15
    rangh=2
  13.25.

(2 - 9 5 6

1 1 3 5

1 - 5 1 3
   rany # = 2
1326.
 1 -2 3 -9 4
0 1 -1 1 -3
1 3 0 -3 1
0 -7 3 1 -3
11-21=1-0=1
\begin{vmatrix} 1-2 & 3 \\ 0 & 1 & -1 \end{vmatrix} = (0+0+2)-(3+(-3)+0) = 2-0=2
                  ranga=3
```