2 adomie 1.

$$\begin{bmatrix}
-1 & 1 & -4 & 0 \\
2 & 2 & 0 & 1 \\
3 & 3 & 2 & 4
\end{bmatrix}$$

$$\begin{bmatrix}
-1 & 1 & -4 & 0 \\
0 & 4 & -8 & 1 \\
0 & 0 & 2 & -4
\end{bmatrix}$$

$$\begin{bmatrix}
-1 & 1 & -4 & 0 \\
0 & 4 & -8 & 1 \\
0 & 0 & 2 & -4
\end{bmatrix}$$

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-1 & 1 & -4 & 0 \\
0 & 4 & -8 & 1 \\
0 & 0 & 2 & -4
\end{bmatrix}$$

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\end{bmatrix}$$

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-1 & 1 & -4 & 0 \\
0 & 4 & -8 & 1 \\
0 & 0 & 2 & -4
\end{bmatrix}$$

$$\begin{bmatrix}
-1 & 1 & -4 & 0 \\
0 & 4 & -8 & 1 \\
0 & 0 & -40 & 2 \\
0 & 6 & -40 & 2 \\
0 & 6 & -40 & 2 \\
0 & 6 & -40 & 2
\end{bmatrix}$$

$$\begin{bmatrix}
-1 & 1 & -4 & 0 \\
0 & 4 & -8 & 1 \\
0 & 1 & -4 & -4
\end{bmatrix}$$

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-1 & 1 & -4 & 0 \\
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\end{bmatrix}$$

$$\begin{bmatrix}
-1 & 1 & -4 & 0 \\
0 & 4 & -8 & 1
\end{bmatrix}$$

$$\begin{bmatrix}
-1 & 1 & 4 & 4 & 2 \\
-1 & 4 & -2 & 1
\end{bmatrix}$$

$$\begin{bmatrix}
-1 & 1 & 4 & 4 & 2 & 1
\end{bmatrix}$$

$$\begin{bmatrix}
-1 & 1 & 4$$

$$L = \begin{cases} 1 & 0 & 0 \\ \frac{3}{2} & 1 & 0 \\ \frac{1}{2} & \frac{44}{13} & 1 \end{cases}, \quad U = \begin{bmatrix} 2 & -3 & -1 \\ 0 & \frac{13}{2} & -\frac{1}{2} \\ 0 & 0 & \frac{32}{13} \end{bmatrix}, \quad \begin{bmatrix} 1 \\ -1 \\ 2 \end{bmatrix}$$

$$\begin{bmatrix}
1 & 11 & 1 & 2 \\
2 & 13 & 1 & 2
\end{bmatrix}$$

$$\sim \begin{bmatrix}
1 & 0 & 0 & 1 & 7 & 1 & 0 & 0 & 1 \\
0 & 1 & 0 & -\frac{5}{2} & 7 & 0 & 0 & 1 & 0 \\
0 & 1 & 1 & \frac{3}{2} & \frac{1}{2} & \frac{1}{3} & 0 & 0 & 1 & \frac{1}{42} \\
0 & \frac{11}{13} & 1 & \frac{3}{2} & \frac{1}{2} & \frac{1}{3} & 0 & 0 & 1 & \frac{1}{42}
\end{bmatrix}$$

$$\frac{13}{2} \times_{2} - \frac{1}{2} \cdot \frac{47}{32} = -\frac{3}{2}$$

$$\frac{13}{2} \times_{2} - \frac{329}{64} = -\frac{3}{2} / 2$$

$$\frac{1}{4} \times_{2} - \frac{323}{32} = -3 / 32$$

$$\frac{1}{4} \times_{2} - \frac{233}{446}$$

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$$\frac{1}{4} \times_{2} - \frac{233}{446}$$

$$\frac{1}{4} \times_{2} - \frac{1}{4} \times_{2} - \frac{1}{4}$$

$$\frac{1}{4$$