Romanus pasora #3.

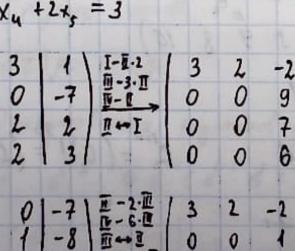
#1.

$$6x_4 + 4x_2 + 5x_3 + 2x_4 + 3x_5 = 1$$
 $3x_1 + 2x_2 + 2x_4 + 3x_5 = 1$

$$\begin{cases} 3y_{4} + 2x_{3} - 2x_{3} + x_{4} = -7 \\ 9x_{4} + 6x_{2} + x_{5} + x_{4} + 2x_{5} = 2 \\ 3x_{4} + 2x_{5} + 4x_{3} + x_{4} + 2x_{5} = 3 \end{cases}$$

$$\begin{cases} 6 & 4 & 5 & 2 & 3 & 1 \\ 3 & 2 & -2 & 1 & 0 & -7 \\ 9 & 6 & 1 & 3 & 2 & 2 \\ 3 & 2 & 4 & 1 & 2 & 3 \\ \end{cases} \xrightarrow{\begin{bmatrix} 1-\overline{1} \cdot 2 \\ \overline{1} - 3 \cdot \overline{1} \\ \overline{1} - \overline{1} \end{bmatrix}} \xrightarrow{\begin{bmatrix} 0 \\ \overline{1} - \overline{1} \end{bmatrix}} \xrightarrow{0}$$

$$\begin{cases} 3 & 2 & -2 & 1 & 0 & -7 \\ 9 & 6 & 1 & 3 & 2 & 2 \\ 3 & 2 & 4 & 1 & 2 & 3 \\ \end{bmatrix} \xrightarrow{\begin{bmatrix} 1-\overline{1} \cdot 2 \\ \overline{1} - 3 \cdot \overline{1} \\ \overline{1} - \overline{1} \end{bmatrix}} \xrightarrow{0}$$



$$\begin{pmatrix}
6 & 4 & 5 & 2 & 3 & 1 \\
3 & 2 & -2 & 1 & 0 & -7 \\
9 & 6 & 1 & 3 & 2 & 2 \\
3 & 2 & 4 & 1 & 2 & 3
\end{pmatrix}
\xrightarrow{I-I-2}
\begin{pmatrix}
3 \\
II-I-2 \\
II-I-2 \\
II-I-1 \\
II-I-I-1 \\
II-I-1 \\$$

$$\begin{array}{c}
3 & 2 & 0 & 1 & 0 & 19 \\
0 & 0 & 1 & 0 & 0 & 13 \\
0 & 0 & 0 & 0 & 1 & 34 \\
0 & 0 & 0 & 0 & 0 & 0
\end{array}$$

$$\begin{array}{c}
3X_4 + 2x_2 + X_4 = 19 \\
X_3 = 13
\end{array}$$

$$\begin{array}{c}
X_5 = -344
\end{array}$$

$$\begin{array}{c}
0 + 6ex : X_4 = \frac{19}{3} - \frac{1}{3}X_2 - \frac{1}{3}X_4 ; X_3 = 13 ; X_5 = -34 .$$

$$\begin{array}{c}
42
\end{array}$$

$$\begin{array}{c}
(1234567889) \\
9 & 6325479
\end{array}$$

$$\begin{array}{c}
0 + 7 + 4 + 4 + 0 + 4 + 0 + 0 + 0 = 13 \text{ unRequio}
\end{array}$$

$$\begin{array}{c}
0 + 7 + 4 + 4 + 0 + 4 + 0 + 0 + 0 = 13 \text{ unRequio}
\end{array}$$

$$\begin{array}{c}
0 + 7 + 4 + 4 + 0 + 4 + 0 + 0 + 0 = 13 \text{ unRequio}
\end{array}$$

$$\begin{array}{c}
0 + 7 + 6ex : 13
\end{array}$$

$$\begin{array}{c}
43
\end{array}$$

$$\begin{array}{c}
43$$

$$\begin{array}{c}
43
\end{array}$$

$$\begin{array}{c}
43
\end{array}$$

$$\begin{array}{c}
43$$

$$\begin{array}{c}
43
\end{array}$$

$$\begin{array}{c}
43$$

$$\begin{array}{c}
43
\end{array}$$

$$\begin{array}{c}
43$$

$$\begin{array}{c}
43$$

$$\begin{array}{c}
43$$

$$34$$

$$\begin{array}{c}
67
\end{array}$$

$$\begin{array}{c}
43$$

$$34$$

$$\begin{array}{c}
67
\end{array}$$

$$\begin{array}{c}
43$$

Произведение андал аза ала 954 входит в определитель матриун

5-го передка со знаком минуе, Т.К.

$$G = \begin{pmatrix} 1 & 2 & 3 & 4 & 5 \\ 2 & 1 & 5 & 3 & 4 \end{pmatrix}$$

1+0+2+0+0=3

 $Sgn6' = (-1)^3 = -1$

#6.

以中一·美人一十五次

n+1 n = $(n+1)(n-1) - n \cdot n = n^2 - 1 - n^2 = -1$

Отвег: -1.

#7.

cosk -sind = $cosk \cdot cosk$ - $sind \cdot (-sink) = cos^2k + <math>sin^2k = 1$

Orber: 1.

#8.

 $\begin{vmatrix} 2 & 1 & 3 & 2 & 4 \\ 5 & 3 & 2 & 5 & 3 & = (2 \cdot 3 \cdot 3) + (1 \cdot 2 \cdot 1) + (3 \cdot 5 \cdot 4) - (4 \cdot 3 \cdot 3) - (4 \cdot 2 \cdot 2) - (3 \cdot 5 \cdot 1) = 1 \\ 1 & 4 & 3 & 4 & 4 \end{vmatrix}$

= 18 + 2 + 60 - 9 - 16 - 15 = 80 - 40 = 40

Orber 40.