$\begin{cases} x_{1} + 2x_{2} + 5x_{3} = 4 \\ 3x_{1} + x_{2} - 8x_{3} = -2 \end{cases} = \begin{cases} 1 + 2 + 5 + 3 \\ 3x_{1} + x_{2} - 8x_{3} = -2 \end{cases} = \begin{cases} 1 + 2 + 5 + 3 \\ 0 + 5 - 23 - 14 \end{cases} = \begin{cases} 1 + 2 + 5 + 3 - 2 \\ 3x_{1} + 4 - 5x_{3} - x_{1} \\ 2 + 3x_{2} - 2 \end{cases} = \begin{cases} 1 + 2 + 3x_{3} - 2 \\ 3x_{1} + 4 - 5x_{3} - x_{1} \\ 2 + 3x_{2} - 2 \end{cases} = \begin{cases} 1 + 2 + 3x_{3} - 2 \\ 3x_{1} + 4 - 5x_{3} - x_{1} \\ 2 + 3x_{2} - 2 \end{cases} = \begin{cases} 1 + 2 + 3x_{3} - 2 \\ 3x_{1} + 4 - 5x_{3} - x_{1} \\ 2 + 3x_{2} - 2 \end{cases} = \begin{cases} 1 + 2 + 3x_{3} - 2 \\ 3x_{1} + 4 - 5x_{3} - x_{1} \\ 2 + 3x_{2} - 2 \end{cases} = \begin{cases} 1 + 2 + 3x_{3} - 2 \\ 3x_{1} + 4 - 5x_{3} - x_{1} \\ 2 + 3x_{2} - 2 \end{cases} = \begin{cases} 1 + 2 + 3x_{3} - 2 \\ 3x_{1} + 4 - 5x_{3} - x_{1} \\ 2 + 3x_{2} - 2 \end{cases} = \begin{cases} 1 + 2 + 3x_{3} - 2 \\ 3x_{1} + 4 - 5x_{3} - x_{1} \\ 2 + 3x_{2} - 2 \end{cases} = \begin{cases} 1 + 2 + 3x_{3} - 2 \\ 3x_{1} + 4 - 5x_{3} - x_{1} \\ 2 + 3x_{2} - 2 \end{cases} = \begin{cases} 1 + 2 + 3x_{3} - 2 \\ 3x_{1} + 4 - 5x_{3} - x_{1} \\ 2 + 3x_{2} - 2 \end{cases} = \begin{cases} 1 + 2 + 3x_{3} - x_{1} \\ 2 + 3x_{3} - x_{1} - 2 \end{cases} = \begin{cases} 1 + 2 + 3x_{3} - x_{1} \\ 2 + 3x_{3} - x_{1} - 2 \end{cases} = \begin{cases} 1 + 2 + 3x_{3} - x_{1} \\ 2 + 3x_{3} - x_{1} - 2 \end{cases} = \begin{cases} 1 + 2 + 3x_{3} - x_{1} \\ 2 + 3x_{3} - x_{1} - 2 \end{cases} = \begin{cases} 1 + 2 + 3x_{3} - x_{1} \\ 2 + 3x_{3} - x_{1} - x_{2} - x_{3} - x_{1} - x_{2} - x_{3} - x_{1} \end{cases} = \begin{cases} 1 + 2 + 3x_{3} - x_{1} \\ 2 + 3x_{3} - x_{1} - x_{2} - x_{3} - x_{2} - x_{3} - x$

$$\widetilde{A} = \begin{pmatrix} 1 & 3 & -2 & 4 & 1 & 3 \\ 0 & 5 & 0 & 1 & 2 & 2 \\ 0 & 0 & 3 & 0 & 1 & 4 \\ 0 & 0 & 0 & 2 & 1 & 1 \end{pmatrix}$$

Ранг матрици поэффициентов равен рану расширенной матриям, а так ясе robuection à onpegenena, oyget unert 1 pensenne.

Cucteura syget necobinectiva upu yearbun: rank A < rank A
Pant Matpussu A paben 3 (3 runeitum nezabucunuse corporum en cronsusus)
Nonyraetia, um nan necos xogenno, unosu pant northuisu A ronce our paben 3 (1 2 3 6 6) = (0 -3 -6 6-4a), Teneps paur marpuiste cran paben 2 (nocempre) b-49 f (-7a Bozonien a=1, b=2, c=3 - gennus epadoraro

Nunan-7

(1) a)
$$\begin{cases} x_1 - 2x_2 = 1 \\ 3x_1 - 4x_2 = 7 \end{cases}$$

 $\det A = \begin{vmatrix} 1 & -2 \\ 3 & -4 \end{vmatrix} = -4 + 6 = 2$
 $\det A_1 = \begin{vmatrix} 1 & -2 \\ 7 & -4 \end{vmatrix} = -4 + 14 = 10$
 $\det A_2 = \begin{vmatrix} 1 & 1 \\ 3 & 7 \end{vmatrix} = 7 - 3 = 4$
 $\begin{cases} x_1 - 2x_2 = 1 \\ 4 = 7 - 4 \end{vmatrix} = 7 - 3 = 4 \end{cases}$
 $\begin{cases} x_2 - 3 = 4 \\ 6 = 7 - 3 = 4 \end{cases}$

 $\delta.)(2x,-x_2+5x_3=10)$ $\begin{cases}
 \chi_1 + \chi_2 - 3\chi_3 = -2 \\
 2\chi_1 + 9\chi_2 + \chi_3 = 1
 \end{cases}$ det A = \(\frac{2}{2} \, \frac{1}{4} \, \frac{5}{1} \) = 43 det A, = | -2 -1 -3 | = 86

 $\det A_2 = \begin{vmatrix} 2 & 10 & 5 \\ 1 & -2 & -3 \\ 2 & 1 & 1 \end{vmatrix} = -43$ det A= |2 -1 10 = 43

$$7, = \frac{\det A_1}{\det A} = 2$$

$$7_2 = \frac{\det A_2}{\det A} = -1$$

$$7_3 = \frac{\det A_3}{\det A} = 1$$