N1. 
$$(ax - yy - yz = y)$$
  $(-y - a - y)$   $(-y - a - y)$   $(-y - b)$   $(-y - b)$ 

$$\begin{cases}
0 & 0 & 0 & 0 \\
8e+1f-7a & 0 & 0
\end{cases}$$

$$\begin{cases}
0 & 0 & 0 & 0 \\
8e+1f-7a & 0 & 0
\end{cases}$$

$$\begin{cases}
0 & 0 & 0 & 0 \\
8e+2f-7a=0
\end{cases}$$

$$\begin{cases}
3 & 3 & -2 & 2 & 1 & -1 & 0 \\
7 & 0 & 0 & -8 & -1 & 0
\end{cases}$$

$$\begin{cases}
1 & 0 & 0 & -\frac{8}{7} & -1 & 0 \\
3 & 3 & -2 & 2 & 1 & -1 & 0
\end{cases}$$

$$\begin{cases}
1 & 0 & 0 & 0 & -\frac{8}{7} & -1 & 0 \\
3 & 3 & -2 & 2 & 1 & -1 & 0
\end{cases}$$

$$\begin{cases}
1 & 0 & 0 & 0 & -\frac{8}{7} & -1 & 0 \\
3 & 3 & -2 & 2 & 1 & -1 & 0
\end{cases}$$

$$\begin{cases}
1 & 0 & 0 & 0 & -\frac{8}{7} & -1 & 0 \\
3 & 3 & -2 & 2 & 1 & -1 & 0
\end{cases}$$

$$\begin{cases}
1 & 0 & 0 & 0 & -\frac{8}{7} & -1 & 0 \\
3 & 3 & -2 & 2 & 1 & -1 & 0
\end{cases}$$

$$\begin{cases}
1 & 0 & 0 & 0 & -\frac{8}{7} & -1 & 0 \\
3 & 3 & -2 & 2 & 1 & -1 & 0
\end{cases}$$

$$\begin{cases}
1 & 0 & 0 & 0 & -\frac{8}{7} & -1 & 0 \\
3 & 3 & -2 & 2 & 1 & -1 & 0
\end{cases}$$

$$\begin{cases}
1 & 0 & 0 & 0 & -\frac{8}{7} & -1 & 0 \\
3 & 3 & -2 & 2 & 1 & -1 & 0
\end{cases}$$

$$\begin{cases}
1 & 0 & 0 & 0 & -\frac{8}{7} & -1 & 0 \\
3 & 3 & -2 & 2 & 1 & -1 & 0
\end{cases}$$

$$\begin{cases}
1 & 0 & 0 & 0 & -\frac{8}{7} & -1 & 0 \\
3 & 3 & -2 & 2 & 1 & -1 & 0
\end{cases}$$

$$\begin{cases}
1 & 0 & 0 & 0 & -\frac{8}{7} & -1 & 0 \\
3 & 3 & -2 & 2 & 1 & -1 & 0
\end{cases}$$

$$\begin{cases}
1 & 0 & 0 & 0 & -\frac{8}{7} & -1 & 0 \\
3 & 3 & -2 & 2 & 1 & -1 & 0
\end{cases}$$

$$\begin{cases}
1 & 0 & 0 & 0 & -\frac{8}{7} & -1 & 0 \\
0 & 1 & -\frac{2}{3} & \frac{3}{3} & \frac{1}{2} & \frac{2}{3} & 0
\end{cases}$$

$$\begin{cases}
1 & 0 & 0 & 0 & -\frac{8}{7} & -1 & 0 \\
0 & 1 & -\frac{2}{3} & \frac{3}{3} & \frac{1}{2} & \frac{2}{3} & 0
\end{cases}$$

$$\begin{cases}
1 & 0 & 0 & 0 & -\frac{8}{7} & -1 & 0 \\
0 & 1 & -\frac{2}{3} & \frac{3}{3} & \frac{1}{2} & \frac{2}{3} & \frac{3}{4} & \frac{2}{3} & \frac{2}{3} & \frac{2}{3} & \frac{3}{4} & \frac{2}{3} & \frac{2}{3}$$

X33 = 35 X43 +38  $\chi_{41} = \chi_{41}$ X42 = X42

X43= X43

$$A = \begin{pmatrix} -4 & -17 & -12 & 16 & -3 \\ 5 & 13 & 8 & -6 & -2 \\ 1 & 4 & 3 & -4 & 1 \\ -1 & -2 & -1 & 0 & 1 \end{pmatrix}$$
 Mesofn. November my decrue many may  $A$ 

$$\begin{bmatrix}
-4 & -17 & -12 & 16 & -3 \\
5 & 13 & 8 & -6 & -2 \\
4 & 4 & 3 & -4 & 1
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
5 & 13 & 8 & -6 & -2 \\
-4 & -17 & -12 & 16 & -3 \\
-4 & -17 & -12 & 16 & -3
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 16 & -3 \\
-4 & -17 & -17 & 17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17 & 17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 4 & 3 & -4 & 1 \\
-4 & -17 & -17
\end{bmatrix}$$

$$\begin{bmatrix}
1 &$$

 $\overrightarrow{\mathbf{IV}}: \begin{pmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{pmatrix} \quad \overrightarrow{\mathbf{VI}}: \begin{pmatrix} 1 & 0 & -3 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{pmatrix} \quad \overrightarrow{\mathbf{VI}}: \begin{pmatrix} 1 & 0 & -3 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & -2 & 1 \end{pmatrix}$ 

(wetwaren seem. 2 a 3 conjustices)

Dua moro, moder nougrums y CB mampinger A, nymeno repennoncums manipungs

21. hypody. b naparagre C II go I u junoment haryr. hypurb. na A. Mmour, 
$$P = \begin{pmatrix} 1 & 0 & -3 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & -2 & 1 \end{pmatrix} \begin{pmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{pmatrix} \begin{pmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{pmatrix} \begin{pmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{pmatrix} \begin{pmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{pmatrix}$$

$$A = \begin{pmatrix}
1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 0 & 0
\end{pmatrix}$$

$$B = \begin{pmatrix}
1 & 0 & -6 & -9 \\
0 & 1 & -6 & 5 \\
3 & 2 & -30 & -12
\end{pmatrix}$$

$$C = \begin{pmatrix}
-26 & -13 & 6 & 0 \\
60 & 11 & 0 & 20 \\
91 & 9 & 6 & 40
\end{pmatrix}$$

$$A \cdot B = \begin{pmatrix}
1 & 0 & -6 & -9 \\
0 & 1 & -6 & -5 \\
3 & 2 & -30 & -12
\end{pmatrix}$$

$$C = \begin{pmatrix}
1 & -2 & -4 & -2 & 1 & 0 & 0 & 0 \\
-2 & 3 & 0 & 1 & 0 & 0 & 0 \\
-2 & 3 & 0 & 1 & 0 & 0 & 0 \\
-2 & 3 & 0 & 1 & 0 & 0 & 0 \\
-2 & 3 & 0 & 1 & 0 & 0 & 0 \\
-2 & 3 & 0 & 1 & 0 & 0 & 0 \\
0 & 0 & 2 & -1 & 1 & 0 & 0 & 0 \\
0 & 0 & 2 & -1 & 1 & 0 & 0 & 0 \\
0 & 0 & 2 & -1 & 1 & 0 & 0 & 0 \\
0 & 0 & 2 & -1 & 1 & 0 & 0 & 0 \\
0 & 0 & 2 & -1 & 1 & 0 & 0 & 0 \\
0 & 0 & 2 & -1 & 1 & 0 & 0 & 0 \\
0 & 0 & 0 & 1 & 12 & -21 & 0 & 0 \\
0 & 0 & 0 & 1 & 12 & -22 & 0 & 0 \\
0 & 0 & 0 & 1 & 12 & -22 & 0 & 0 & 0 \\
0 & 0 & 0 & 1 & 12 & -22 & 0 & 0 & 0 \\
0 & 0 & 0 & 1 & 12 & -22 & 0 & 0 & 0 \\
0 & 0 & 0 & 1 & 12 & -22 & 0 & 0 \\
0 & 0 & 0 & 1 & 12 & -22 & 0 & 0 \\
0 & 0 & 1 & -1 & -1 & -2 & 1 & 0 & 0 \\
0 & 0 & 0 & 1 & 12 & 5 & -2 & 1 & 0 \\
0 & 0 & 0 & 1 & 12 & 5 & -2 & 1 & 0 \\
0 & 0 & 0 & 1 & 12 & 5 & -2 & 1 & 0 \\
0 & 0 & 0 & 1 & 12 & 5 & -2 & 1 & 0 \\
0 & 0 & 0 & 1 & 12 & 5 & -2 & 1 & 0 \\
0 & 0 & 0 & 1 & 12 & 5 & -2 & 1 & 0 \\
0 & 0 & 0 & 1 & 12 & 5 & -2 & 1 & 0 \\
0 & 0 & 0 & 1 & 12 & 5 & -2 & 1 & 0 \\
0 & 0 & 0 & 1 & 12 & 5 & -2 & 1 & 0 \\
0 & 0 & 0 & 1 & 12 & 5 & -2 & 1 & 0 \\
0 & 0 & 0 & 1 & 12 & 5 & -2 & 1 & 0 \\
0 & 0 & 0 & 1 & 12 & 5 & -2 & 1 & 0 \\
0 & 0 & 0 & 1 & 12 & 5 & -2 & 1 & 0 \\
0 & 0 & 0 & 1 & 12 & 5 & -2 & 1 & 0 \\
0 & 0 & 0 & 1 & 12 & 5 & -2 & 1 & 0 \\
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0 & 0 & 0 & 1 & 12 & 5 & -2 & 1 & 0 \\
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0 & 0 & 0 & 1 & 12 & 5 & -2 & 1 & 0 \\
0 & 0 & 0 & 1 & 12 & 5 & -2 & 1 & 0 \\
0 & 0 & 0 & 1 & 12 & 5 & -2 & 1 & 0 \\
0 & 0 & 0 & 1 & 12 & 5 & -2 & 1 & 0 \\
0 & 0 & 0 & 1 & 12 & 5 & -2 & 1 & 0 \\
0 & 0 & 0 & 1 & 12 & 5 & -2 & 1 & 0 \\
0 & 0 & 0 & 1 & 12 & 5 & -2 & 1 & 0 \\
0 & 0 & 0 & 1 & 12 & 5 & -2 & 1 & 0 \\
0 & 0 & 0 & 1 & 12 & 5 & -2 & 1 & 0 \\
0 & 0 & 0 & 1 & 12 & 5 & -2 & 1 & 0 \\
0 & 0 & 0 & 1$$

Cucmenus ABC x=0 u Px=0 ( $x \in R$ ) uneron equinapobole un-bo parami, law y mark un pmo:

Typolograms mark un pmo:

ABC = 0 $\begin{pmatrix}
0 & 2717 & -1980 & -2860 \\
0 & -741 & 540 & 780 \\
1 & 29 & -21 & -30 \\
0 & 54093 & -39420 & 56940 & +(2).73
\end{pmatrix}$   $\begin{vmatrix}
1 & 29 & -21 & -30 \\
0 & 2717 & -1980 & -2860 \\
0 & 0 & 0
\end{vmatrix}$  $\begin{pmatrix} 1 & 29 & -21 & -30 \\ 0 & -247 & 180 & 260 \\ 0 & 2717 & -1980 & -2860 \end{pmatrix} + 12.11$  $\begin{pmatrix} -2 & -58 & 42 & 60 \\ 60 & 11 & 0 & 20 \\ 94 & 9 & 6 & 40 \end{pmatrix}$ 94 9 6 40 -9419 -247 180 260

$$\begin{vmatrix}
1 & 29 & -21 & -30 \\
0 & 0 & 0 & 0 \\
0 & -2717 & 1960 & 2860 \\
0 & -247 & 180 & 260
\end{vmatrix}
-(4) \cdot 11 \rightarrow \begin{pmatrix}
1 & 29 & -21 & -30 \\
0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 \\
0 & -247 & 180 & 260
\end{pmatrix}
\cdot -\frac{1}{247}$$

$$\rightarrow \begin{pmatrix}
1 & 0 & \frac{180 \cdot 29}{247} & -21 & \frac{260 \cdot 29}{247} & -30 \\
0 & 1 & -\frac{180}{247} & -\frac{260}{247}
\end{pmatrix}
- ycb$$

Umax, mangunger  $ABC^{-1}$  u D unerom ognnaxober YCK, znarum, Y cuonem  $ABC^{-1}x=0$  u Dx=0 ognnaxober un-be pemenun.  $(x \in R^4)$ 

Ombem: