Пакариев ворис БРМИ-216 Bapurus 67 MI

$$A = \begin{pmatrix} -2 & 1 \\ 4 & -2 \end{pmatrix}$$

$$Q = \begin{pmatrix} -5 & 1 \end{pmatrix}$$

$$\beta = \begin{pmatrix} -5 & 1 \\ -9 & 5 \end{pmatrix}$$

$$XA = HX + B$$

$$2 \times 2 \times 2 \times 2 \times 2$$

$$X = \begin{pmatrix} x_1 \times z \\ x_2 \times y \end{pmatrix} = \begin{pmatrix} x_1 \times z \\ x_3 \times y \end{pmatrix} = \begin{pmatrix} x_1 \times z \\ x_3 \times y \end{pmatrix} = \begin{pmatrix} x_1 \times z \\ x_3 \times y \end{pmatrix} = \begin{pmatrix} x_1 \times z \\ x_3 \times y \end{pmatrix} = \begin{pmatrix} x_1 \times z \\ x_3 \times y \end{pmatrix} = \begin{pmatrix} x_1 \times z \\ x_3 \times y \end{pmatrix} = \begin{pmatrix} x_1 \times z \\ x_3 \times y \end{pmatrix} = \begin{pmatrix} x_1 \times z \\ x_3 \times y \end{pmatrix} = \begin{pmatrix} x_1 \times z \\ x_3 \times y \end{pmatrix} = \begin{pmatrix} x_1 \times z \\ x_3 \times y \end{pmatrix} = \begin{pmatrix} x_1 \times z \\ x_3 \times y \end{pmatrix} = \begin{pmatrix} x_1 \times z \\ x_3 \times y \end{pmatrix} = \begin{pmatrix} x_1 \times z \\ x_3 \times y \end{pmatrix} = \begin{pmatrix} x_1 \times z \\ x_3 \times y \end{pmatrix} = \begin{pmatrix} x_1 \times z \\ x_3 \times y \end{pmatrix} = \begin{pmatrix} 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$$A \times = \begin{pmatrix} -2 & 1 \\ 4 & -2 \end{pmatrix} \begin{pmatrix} x_1 \times 2 \\ x_3 \times 4 \end{pmatrix} = \begin{pmatrix} -2x_1 + x_3 & -2x_2 + x_4 \\ 4x_1 - 2x_3 & 4x_2 - 2x_4 \end{pmatrix}$$

$$Ax + B = \begin{pmatrix} -2x_1 + x_3 - 5 & -2x_2 + 49 + 1 \\ 4x_1 - 2x_3 - 4 & 4x_2 - 2x_4 + 5 \end{pmatrix}$$

Thougracu:

$$\begin{pmatrix} -2x_1 + 4x_2 & x_1 - 2x_2 \\ -2x_3 + 4x_4 & x_3 - 2x_4 \end{pmatrix} = \begin{pmatrix} -2x_1 + x_3 - 5 & -2x_2 + x_4 + 4 \\ 4x_1 - 2x_3 - 4 & 4x_2 - 2x_4 + 5 \end{pmatrix}$$

Yordon mar puyon dum paboren bee un premeron go vinner down paleun:

$$\begin{cases}
-2x_1 + 4x_2 = -2x_1 + x_3 - 5 \\
-2x_3 + 4x_4 = 4x_1 - 2x_3 - 4
\end{cases} \Rightarrow \begin{cases}
4x_2 - x_3 = -5 \\
-4x_1 + 4x_4 = -6 \\
x_1 - 2x_2 = -2x_2 + x_4 + 6 \\
x_3 - 2x_4 = 4x_2 - 2x_4 + 5
\end{cases} \Rightarrow \begin{cases}
4x_2 - x_3 = -5 \\
-4x_1 + 4x_4 = -6 \\
x_1 - x_4 = 1
\end{cases}$$

Bammen & pacum penny is ener pury cucresion

Jammel 6 paculi peraly to east pury accress
$$\begin{pmatrix}
0 & 4 & -1 & 0 & | -5 & | \overline{11} + \overline{11} - 4 \\
-4 & 0 & 0 & 4 & | -4 & | \overline{12} + \overline{11} \\
1 & 0 & 0 & -1 & | 1 & | 1 & | 1 \\
0 & -4 & 1 & 0 & | 5
\end{pmatrix}$$

$$\begin{array}{c}
\overline{1} \rightarrow \overline{1} \cdot \overline{1} \cdot \overline{1} \\
0 & 1 - \overline{1} & 0 & | -\frac{5}{4} \\
0 & 1 - \overline{1} & 0 & | -\frac{5}{4}
\end{array}$$

$$\begin{cases} \chi_1 = 1 + \chi_4 \\ \chi_2 = -\frac{5}{4} + \frac{1}{4}\chi_2 \end{cases}$$

Orber:
$$\begin{pmatrix} 1+\chi_4 & -\frac{5}{4}+\frac{1}{5}\chi_3 \\ \chi_3 & \chi_4 \end{pmatrix}$$
.

$$A = \begin{pmatrix} 7 & 4 & -3 & 2 \\ 5 & 6 & C & -8 \\ 3 & 1 & -2 & 3 \end{pmatrix}$$

$$d_{1} = \begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix} \qquad d_{2} = \begin{pmatrix} -2 \\ 8 \\ d \end{pmatrix}$$

Ax=6,

$$3xy$$
 = $3x1$ =) X & Matux1. They crabum ee kax $X = \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 \end{pmatrix}$

$$\begin{pmatrix} 74 & -32 \\ 56 & C-8 \\ 31 & -23 \end{pmatrix} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 \end{pmatrix} = \begin{pmatrix} 7x_1 + 4x_2 - 3x_3 + 2x_4 \\ 5x_1 + 6x_2 + Cx_3 - 8x_4 \\ 3x_1 + 1 - x_2 - 2x_3 + 3x_4 \end{pmatrix} = \begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix}$$

Marpuyt palou => Le rungur palous

Запишем систему сразу в расширениция матричу системот:

Samually custody coasy to pacture penalty us, page cuctodis.

$$\begin{pmatrix}
7 & 4 & -3 & 2 & | & 1 \\
5 & 6 & C & -8 & | & 0 \\
3 & 1 & -7 & 3 & | & 0
\end{pmatrix}$$

$$\begin{pmatrix}
7 & 4 & -3 & 2 & | & 1 \\
3 & 1 & -2 & 3 & | & 0 \\
5 & 6 & C & -8 & | & 0
\end{pmatrix}$$

$$\begin{pmatrix}
7 & 4 & -3 & 2 & | & 1 \\
3 & 1 & 3 & -2 & | & 0 \\
5 & 6 & -8 & C & | & 0
\end{pmatrix}$$

Cucreus dyest necobnecina, ecu 3-e y palnemue od parusce l grabuence luga 0=4, zel 4+2. Bhamen cyzel 4=13 Programy rooder encresse warm necolaustron spedyerce rootes 5-5C=0 => 5C=5 => C=1

DORGERUS 24 Pet July 2 Aca

BOCTRELIUSE YPEBULUER LUI YMU HUKOK NE EURREN OSHYLUTS LEBYD TACTO => 60 BCER OCTOLUNESE CHYPRER CUCTURE COBULCTURE.

=) (nonce T non un contre to une e zuerence pabroe

Ax=bz - coluecTha

$$\begin{pmatrix}
7 & 4 & - & 2 \\
5 & 6 & 1 & - & \\
3 & 1 & - & 2
\end{pmatrix} - \begin{pmatrix}
x_1 \\
x_2 \\
x_3 \\
x_4
\end{pmatrix} = \begin{pmatrix}
-2 \\
8 \\
d
\end{pmatrix}$$

Cucrema by get whenever to have brown chegre, konga l there and gradulum mpresse 28CD rome of hymrch $\frac{3+5d}{2} - \frac{6+7d}{5} = 0$

33 + 116 = 0 d = -3

$$\begin{pmatrix} 1 & 2 & 1 & -4 & | & 4 \\ 0 & 1 & 1 & -3 & | & 3 \end{pmatrix} \xrightarrow{\widehat{I} \to \widehat{I} - 2 \cdot \overline{I}} \begin{pmatrix} 1 & 0 & -1 & 2 & | & -2 \\ 0 & 1 & 1 & -3 & | & 3 \end{pmatrix}$$

$$\begin{cases} x_1 = -2 + x_2 - 2x_4 \\ x_2 = 3 - x_2 + 3x_4 \end{cases}$$

Orber:
$$C = 1$$

$$C = -3$$
Nowsee premenue:
$$\begin{pmatrix} -24x_3 - 2x_4 \\ 3-x_3+3x_4 \\ x_3 \end{pmatrix}, x_3, x_4 \in \mathbb{R}.$$

Her, ru cymentyer:

<u>Pacho</u> Περιδερίν βει βοзионення μεριστ μοβει: (12745676)=(152)-(31)-(476) =(152)-(3)-(8)-(476) με (51172463)=(152)-(31)-(476) =(152)-(3)-(8)-(476) με μεσχείος με

 $G = \begin{pmatrix} 12345678 \end{pmatrix}^{136} = \begin{pmatrix} 15382 \end{pmatrix}^{136} - \begin{pmatrix} 1476 \end{pmatrix}^{196} = \begin{pmatrix} 15382 \end{pmatrix} \cdot \begin{pmatrix} 476 \end{pmatrix}^{196}$ STORY SGN 6 = (-1) = (-1) = 1 => 205 max => me nogr 5= (12345675) = (152) · (38764) 5946= (-1) =1 => 7esthal => He hogz $5 = \left(\frac{12345674}{51837462}\right)^{136} = \left(15764382\right)^{196} = \left(15764382\right)^{19} = \left(14\right) \cdot (53) \cdot (78) \cdot (62)$ уже другая теристивне $6 = \frac{(12)45678}{51823467} = (15387642)' = (15387642)' = (17)(56)(34)(82)$ I'me gry bes napectambres =) he nogu 62 (12345678) = (157642)(36) 19h 0=(-1)6+2-2 = (-1)6-1 => ZETHER => WE NOGE

Orber : Lee cyugeorbyer

$$\begin{vmatrix}
3 \times 2x & -x & -2x & 1 \\
2x & -3x & -x & 4 & x \\
2x & 1 & 3x & x & -5x \\
4 & -4x & 2x & 3x & -x \\
4 & 5x & 4 & 1 & -2x
\end{vmatrix}$$

Egunuyon.

Eam un lozemen x uz 1-4 coponen, to man upugesce opato x uz uz 5-20 cop eduge => uz 1-4 coponen l
monz begennen odenseremen yza urbyet 1.

Plo a reasonithoù ispurence paccuat pubbre 2-10 coporey 4 2-6 consey, us zù coporen un osaza Teneno gospano lond paro 1.

Rolyzen

PACCUSTPUM 12-022pegh OCTR bumbles UKC61

ECH MIN BO36MEN FMULNT R21 10 M3 4-5 CTPOKU

MRM MPUGETCH GZETT CUSE 1 X => Me MOGRE

PPU 923 NOMINARUM CHAZACUPE -X

Ppu butope R43 NOMINARUM CHAZACUPE 2X

Ppu boodo pe R44 MIN obozamo M3 2-5 Copoku butopato

ense ogum X => Me Mogre 2X + (-X) = 1X

Orbett: 1

= 2 (-4+fd-Bn-3ad) = -8+16d-18a-6ad

Assessa Maryubuneca superluselle govinno Sous Police 32 bucu existe or d

-18048 = -8 + 16 d - 18a - 60, d

$$6 = \frac{16}{6} = \frac{1}{3}$$

976a: Q = 8

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

Marpuya A Cynyerbyer (=> let A +2

$$= \begin{vmatrix} -4 & 23 \\ 1 & 02 \end{vmatrix} = - \begin{vmatrix} 1 & 00 \\ -4 & 23 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - 1 - \begin{vmatrix} 2 & 3 \\ 2 & 2 & -1 \end{vmatrix} = - 1 - 1$$

$$= -1\left(-2 - 3a\right) = 2 + 3a \neq 0$$

$$3a \neq -2$$

$$a \neq -\frac{2}{3}$$

A shreter penemien ypebnemie AX=E

Penna IN ypabneme

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

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

$$\begin{pmatrix}
0 & 1 & 0 & 0 & | & 0 & 1 & 0 \\
0 & 2 & 2 & -1 & | & 0 & 0 & 1
\end{pmatrix}$$

$$\begin{pmatrix}
0 & 1 & 0 & 0 & | & 0 & 1 & 0 \\
0 & 2 & 2 & -1 & | & 0 & 0 & 1
\end{pmatrix}$$

$$\begin{pmatrix}
0 & 1 & 0 & 0 & | & 0 & 1 & 0 \\
0 & 2 & 2 & -1 & | & 0 & 0 & 1
\end{pmatrix}$$

$$\begin{pmatrix}
0 & 1 & 0 & 0 & | & 0 & 1 & 0 \\
0 & 2 & 2 & -1 & | & 0 & 0 & 1
\end{pmatrix}$$

$$\begin{pmatrix}
0 & 1 & 0 & 0 & | & 0 & 1 & 0 \\
0 & 2 & 2 & -1 & | & 0 & 0 & 1
\end{pmatrix}$$

Scanned with CamScanner

Pachotpun he onpegentions

$$\frac{2a}{2+3a} \quad 4 - \frac{4a}{2+3a} \quad -2 + \frac{6a}{2+3a} \quad 1$$

$$\frac{2}{2+3a} \quad 2 - \frac{2a}{2+3a} \quad -1 + \frac{3a}{2+3a} \quad 0$$

$$\frac{4}{2+3a} \quad -\frac{2}{2+3a} \quad \frac{3}{2+3a} \quad 0$$

$$\frac{6}{2+3a} \quad 2 - \frac{2a}{2+3a} \quad -1 + \frac{3e}{2+3a} \quad 2$$

$$\frac{1}{2+3a} \quad -\frac{2}{2+3a} \quad \frac{3}{2+3a}$$

$$\frac{1}{2+3a} \quad -\frac{1}{2+3a} \quad \frac{3}{2+3a}$$

$$\frac{1}{2+3a} \quad -\frac{1}{2+3a} \quad \frac{3}{2+3a}$$

$$\frac{1}{2+3a} \quad -\frac{1}{2+3a} \quad -\frac{1}{2+3a} \quad -\frac{3}{2+3a}$$

$$\frac{1}{2+3a} \quad -\frac{1}{2+3a} \quad -\frac{1}{2+3a} \quad -\frac{3a}{2+3a}$$

$$\frac{1}{2+3a} \quad -\frac{1}{2+3a} \quad -\frac{1}{2+3a} \quad -\frac{3a}{2+3a}$$

$$\frac{3e}{(2+3e)^{2}} + \frac{3e}{(2+2e)^{2}} - \frac{1}{2+3e} = \frac{6e}{(2+3e)^{2}} - \frac{1}{2+3e}$$

$$\frac{6e^{-2-3e}}{(2+3e)^{2}} = \frac{3e^{-2}}{(2+3e)^{2}} = 44e^{-2} + (2+3e)^{2} = 1$$

$$4 + 12e + 3e^{2} = 1$$

$$4 = -\frac{1}{3}$$

$$4 = -\frac{1}{3}$$

$$4 = -\frac{1}{3}$$

$$4 = -\frac{1}{3}$$

$$4 = -\frac{1}{3}$$