DO MAMMILE POISOTA. Norumba Copes 3112. Oбратная Holtpuya

1, 4, 37

2.
$$A_{11} = (-1)^{1+1} \cdot \begin{vmatrix} 0 & 2 \\ 0.5 & 0 \end{vmatrix} = 0-1=-1$$

$$A_{12} = \begin{pmatrix} -1 \end{pmatrix}_{1+2} \cdot \begin{vmatrix} 0 & 2 \\ 0 & 0 \end{vmatrix} = -\begin{pmatrix} 0 - 0 \end{pmatrix} = 0$$

$$A_{13} = (-1)^{1+3} \mid 0 \mid 0 \mid = 0 - 0 = 0$$
 4. $A^{-1} = \frac{1}{\det A} \cdot \widetilde{A} = \frac{1}{\det A}$

$$A_{21} = (-1)^{2+1} \begin{vmatrix} 0 & 0 \\ 0.5 & 0 \end{vmatrix} = -(0-0) = 0 = \frac{1}{1} \cdot \begin{pmatrix} -1 & 0 & 0 \\ 0 & 0 & 2 \\ 0 & 0.5 & 0 \end{pmatrix} = \frac{1}{1} \cdot \begin{pmatrix} -1 & 0 & 0 \\ 0 & 0 & 2 \\ 0 & 0.5 & 0 \end{pmatrix} = \frac{1}{1} \cdot \begin{pmatrix} -1 & 0 & 0 \\ 0 & 0 & 2 \\ 0 & 0.5 & 0 \end{pmatrix} = \frac{1}{1} \cdot \begin{pmatrix} -1 & 0 & 0 \\ 0 & 0 & 2 \\ 0 & 0.5 & 0 \end{pmatrix} = \frac{1}{1} \cdot \begin{pmatrix} -1 & 0 & 0 \\ 0 & 0 & 2 \\ 0 & 0.5 & 0 \end{pmatrix} = \frac{1}{1} \cdot \begin{pmatrix} -1 & 0 & 0 \\ 0 & 0 & 2 \\ 0 & 0.5 & 0 \end{pmatrix} = \frac{1}{1} \cdot \begin{pmatrix} -1 & 0 & 0 \\ 0 & 0 & 2 \\ 0 & 0.5 & 0 \end{pmatrix} = \frac{1}{1} \cdot \begin{pmatrix} -1 & 0 & 0 \\ 0 & 0 & 2 \\ 0 & 0.5 & 0 \end{pmatrix} = \frac{1}{1} \cdot \begin{pmatrix} -1 & 0 & 0 \\ 0 & 0 & 2 \\ 0 & 0.5 & 0 \end{pmatrix} = \frac{1}{1} \cdot \begin{pmatrix} -1 & 0 & 0 \\ 0 & 0 & 2 \\ 0 & 0.5 & 0 \end{pmatrix} = \frac{1}{1} \cdot \begin{pmatrix} -1 & 0 & 0 \\ 0 & 0 & 2 \\ 0 & 0.5 & 0 \end{pmatrix} = \frac{1}{1} \cdot \begin{pmatrix} -1 & 0 & 0 \\ 0 & 0 & 2 \\ 0 & 0.5 & 0 \end{pmatrix} = \frac{1}{1} \cdot \begin{pmatrix} -1 & 0 & 0 \\ 0 & 0 & 2 \\ 0 & 0.5 & 0 \end{pmatrix} = \frac{1}{1} \cdot \begin{pmatrix} -1 & 0 & 0 \\ 0 & 0 & 2 \\ 0 & 0.5 & 0 \end{pmatrix} = \frac{1}{1} \cdot \begin{pmatrix} -1 & 0 & 0 \\ 0 & 0 & 2 \\ 0 & 0.5 & 0 \end{pmatrix} = \frac{1}{1} \cdot \begin{pmatrix} -1 & 0 & 0 \\ 0 & 0.5 & 0 \\ 0 & 0.5 & 0 \end{pmatrix} = \frac{1}{1} \cdot \begin{pmatrix} -1 & 0 & 0 \\ 0 & 0.5 & 0 \\ 0 & 0.5 & 0 \end{pmatrix} = \frac{1}{1} \cdot \begin{pmatrix} -1 & 0 & 0 \\ 0 & 0.5 & 0 \\ 0 & 0.5 & 0 \\ 0 & 0.5 & 0 \end{pmatrix} = \frac{1}{1} \cdot \begin{pmatrix} -1 & 0 & 0 \\ 0 & 0.5 &$$

$$A22 = (-1)^{2+2}. \quad |-1 \quad v| = 0 - v = v$$

$$|-1 \quad v| = 0 - v = v$$

$$|-1 \quad v| = -(-1)^{2+3}. \quad |-1 \quad v| = -(-1)^{2+3}. \quad |-1 \quad v| = 0$$

$$A_{23} = \begin{pmatrix} -1 \\ -1 \end{pmatrix} \cdot \begin{vmatrix} -1 & 0 \\ -1 & 0 \end{vmatrix} = -\begin{pmatrix} -0.5 - 0 \\ 0 & 0.5 \end{vmatrix} = \begin{pmatrix} -1 & 0 & 0 \\ 0 & 0 & 2 \\ 0 & 0.5 & 0 \end{pmatrix}$$

$$A_{31} = \begin{pmatrix} -1 \end{pmatrix}^{3+1} \cdot \begin{vmatrix} 0 & 0 \\ 0 & 2 \end{pmatrix} \pm \begin{pmatrix} 0 - 0 \end{pmatrix} = 0$$

$$A_{32} = (-1)^{3+2} \cdot \begin{vmatrix} -1 & 0 \\ 6 & 2 \end{vmatrix} = -(-2-0) = 2$$

$$A_{33} = \begin{pmatrix} -1 \end{pmatrix}^{3+3} \cdot \begin{vmatrix} -1 & 0 \\ 0 & 0 \end{vmatrix} = 0 - 0 = 0$$

3.
$$\widetilde{A} = \begin{pmatrix} -1 & 0 & 0 \\ 0 & 0 & 0, S \\ 0 & 2 & 0 \end{pmatrix}^{T} = \begin{pmatrix} -1 & 0 & 0 \\ 0 & 0 & 2 \\ 0 & 0, S & 0 \end{pmatrix}$$

1.4.55

$$A = \begin{pmatrix} 1 & 1 & -1 \\ 8 & 3 & -6 \\ -4 & -1 & 3 \end{pmatrix}$$
1. $de \notin A = 9 + 8 + 24 - 12 - 6 - 24 = 0 + 17 - 18 = -170 = 3$

$$= 0 + 17 - 18 = -170 = 3$$

$$A = (-1)^{11} \cdot |3 - 6| = 9 - 6 = 3$$

$$A_{12} = (-1)^{1+2} \begin{vmatrix} 8 & -6 \\ -4 & 3 \end{vmatrix} = -(24-24) = 0$$

$$A_{13} = \begin{pmatrix} -1 \end{pmatrix}^{1+3} \cdot \begin{vmatrix} 3 & 3 \\ -4 & -1 \end{vmatrix} = \begin{pmatrix} -8+12 \end{pmatrix} = 4$$

$$A_{21} = (-1)^{2+1}$$
 $\begin{vmatrix} 1 & -1 \\ -1 & 3 \end{vmatrix} = -(3-1) = -2$

$$A_{22} = (-1)^{2+2} \cdot \begin{vmatrix} 1 & -1 \\ -4 & 9 \end{vmatrix} = (3-4) = -1$$

$$A_{23} = (-1)^{2+3} \cdot \begin{vmatrix} 1 & 1 \\ -4 & -1 \end{vmatrix} = -(-1+4) = -3$$

$$A_{31} = (-1)^{3+1} \begin{vmatrix} 1 & -1 \\ 3 & -6 \end{vmatrix} = (-6+3) = -3$$

$$A_{32} = (-1)^{3+2} \begin{vmatrix} 1 & -1 \\ 8 & -6 \end{vmatrix} = -(-6+8) = -2$$

$$A_{33} = (-1)^{3+3}$$
. $\begin{vmatrix} 1 & 1 \\ 8 & 3 \end{vmatrix} = 3-8=-5$

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

4.
$$A = 1$$
 $A = 1$ A

$$2 - 6 = 24 = 6$$

$$2 = 3A^{-7}$$

$$A_{11} = \begin{pmatrix} -1 \\ -1 \\ 2 \end{pmatrix}$$

$$2 = A_{11} = \begin{pmatrix} -1 \\ -1 \\ 4 \end{pmatrix}$$

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

4. $\vec{A} = \frac{1}{16!} \cdot \vec{A} = \frac{1}{6} \cdot \begin{pmatrix} -6 & -2 & 4 \\ 0 & -4 & 2 \\ 6 & 3 & -3 \end{pmatrix} = \begin{pmatrix} -1 & -1/3 & 2/3 \\ 0 & -2/3 & 1/3 \\ 1 & 1/2 & -1/2 \end{pmatrix}$

3

$$A = \begin{pmatrix} 3 & 4 & 2 \\ 2 & -4 & -3 \\ 1 & 5 & 1 \end{pmatrix}$$
1. det $A = -12 + 20 - 12 + 8 + 45 - 8 = 41 = -12 + 20 = 30$

2.
$$A_{11} = (-1)^{14}$$
. $\begin{vmatrix} -4 & -3 \\ 5 & 1 \end{vmatrix} = -4 + 15 = 11$

$$A_{12} = (-1)^{1+2}$$
 $\begin{vmatrix} 2 & -3 \\ 1 & 1 \end{vmatrix} = -(2+3) = -5$

$$A_{13} = \begin{pmatrix} -1 \end{pmatrix}^{1+3} \cdot \begin{vmatrix} 2 & -4 \\ 1 & 5 \end{vmatrix} = \begin{pmatrix} 10+4 \end{pmatrix} = 14$$

$$A_{2} = (-1)^{2+1} \cdot \begin{vmatrix} 4 & 2 \\ 5 & 1 \end{vmatrix} = -(4+10) = 6$$

$$A_{22} = (-1)^{2+2} |3| 2| = 3-2 = 1$$

$$A_{23} = (-1)^{2+3} \cdot \begin{vmatrix} 3 & 4 \end{vmatrix} = -(45-4) = -11$$

$$A_{31} = (-1)^{3+1} \begin{vmatrix} 4 & 2 \\ -4 & -3 \end{vmatrix} = -12 + 8 = -4$$

$$A_{32} = (-1)^{3+2} \begin{vmatrix} 3 & 2 \\ 2 & -3 \end{vmatrix} = -(-9-4) = 13$$

$$A33 = (-1)^{3+3} \begin{bmatrix} 3 & 4 \\ 2 & -4 \end{bmatrix} = -12 - 8 = -20$$

3.
$$\widetilde{\Delta} = \begin{pmatrix} 11 & -5 & 14 \\ 6 & 4 & -11 \\ -4 & 13 & -20 \end{pmatrix}^{T} \begin{pmatrix} 11 & 6 & -4 \\ -5 & 1 & 13 \\ 14 & -11 & -20 \end{pmatrix}$$

4.
$$\overrightarrow{A} = \frac{1}{4}$$
. $\overrightarrow{A} = \frac{1}{41}$. $\begin{pmatrix} 11 & 6 & -4 \\ -5 & 1 & 13 \\ 14 & -11 & -29 \end{pmatrix} = \begin{pmatrix} 11/41 & 6/41 & -4/41 \\ -5/41 & 1/41 & 13/41 \\ 18/41 & -18/41 & -29/41 \end{pmatrix}$

$$A = \begin{pmatrix} 3 & -1 & 2 \\ 4 & -3 & 3 \\ 1 & 3 & 0 \end{pmatrix}$$
1. $det A = 0 + 24 - 3 + 6 - 24 - 6 = 0 = 0 = > JA^{-1}$

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1.4.42

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

$$1. defA = -45 - 4 + 46 - 3 - 20 - 48 = -104 \neq 0$$

$$= > \frac{1}{3}A^{-1}$$

$$2. A_{N} = \begin{pmatrix} -1 \end{pmatrix}^{N-1} \cdot \begin{vmatrix} -3 & 1 \\ 2 & 3 \end{vmatrix} = -9 - 4 = -13$$

$$A_{N} = \begin{pmatrix} -1 \end{pmatrix}^{N-2} \cdot \begin{vmatrix} 2 & 2 \\ 1 & 3 \end{vmatrix} = -\begin{pmatrix} 6 - 2 \end{pmatrix} = -4$$

$$= -\begin{pmatrix} 10 + 2 \end{pmatrix} = -12$$

$$A_{13} = (-1)^{1+3} \begin{vmatrix} 2 & -3 \\ 1 & 2 \end{vmatrix} = 4+3=7$$

$$A_{33} = (-1)^{3+3} \begin{vmatrix} 5 & 8 \\ 2 & -3 \end{vmatrix} = 4+3=7$$

$$A_{21} = (-1)^{2+1} \begin{vmatrix} 8 & -1 \\ 2 & 3 \end{vmatrix} = -(24+2) = -26 = -15-16 = -31$$

$$A_{22} = \begin{pmatrix} -1 & -1 \\ 1 & 3 \end{pmatrix} = 15 + 1 = 16$$

$$3. \tilde{A} = \begin{pmatrix} -13 & -4 & 7 \\ -2C & 16 & -2 \\ 13 & -12 & -31 \end{pmatrix} = 15 + 1 = 16$$

$$A_{23} = \begin{pmatrix} -1 \end{pmatrix}^{2+3} \begin{vmatrix} 5 & 8 \\ 1 & 2 \end{vmatrix} = -\begin{pmatrix} 10 - 8 \end{pmatrix} = -2 = \begin{pmatrix} -13 & -26 & 13 \\ -4 & 16 & -12 \\ 7 & -2 & -31 \end{pmatrix}$$

$$A_{31} = \begin{pmatrix} -1 \end{pmatrix}^{3+1} \begin{vmatrix} 8 & -1 \\ -3 & 2 \end{vmatrix} = 16+3=13$$

4.
$$\Delta^{-1} = 1$$
 $A = 1$ $A = 1$ $A = 1$ $A = 1$ $A = 1$

4.
$$\Delta^{-1} = \frac{1}{\text{det} \Delta}$$
. $\widetilde{\Lambda} = \frac{1}{-104}$. $\begin{pmatrix} -13 & -26 & 13 \\ -4 & 16 & -12 \\ 7 & -2 & -31 \end{pmatrix} = \begin{pmatrix} 1/8 & 1/4 & -1/8 \\ 1/26 & -2/13 & 3/26 \\ 1/104 & 1/52 & 31/104 \end{pmatrix}$ $\widetilde{5}$

1.4.43

2.
$$\Gamma = \begin{pmatrix} 1 & -1 & -1 & | & 1 & 0 & 0 \\ -1 & 2 & 1 & | & 0 & 1 & 0 \\ -1 & 1 & 2 & | & 0 & 0 & 1 \end{pmatrix} \underbrace{\vec{u} + \vec{l}}_{\bullet} \sim \begin{pmatrix} 1 & -1 & -1 & | & 1 & 0 & 0 \\ 0 & 1 & 0 & | & 1 & 1 & 0 \\ 0 & 0 & 1 & | & 1 & 0 & 1 \end{pmatrix}$$

1.4.44.

$$A = \begin{pmatrix} 2 & 7 & 3 \\ 3 & 9 & 4 \\ 1 & 5 & 3 \end{pmatrix}$$

$$= 5 + 1 - 9 = -3 \neq 0 = > 3A^{-1}$$

$$2. \Gamma = \begin{pmatrix} 2 & 7 & 3 & 1 & 0 & 0 \\ 3 & 9 & 4 & 0 & 1 & 0 \\ 1 & 5 & 3 & 0 & 0 & 1 \end{pmatrix} \stackrel{\widehat{I} - \widehat{I}}{\stackrel{\widehat{I}}}{\stackrel{\widehat{I}}}\stackrel{\widehat{I}}{\stackrel{\widehat{I}}}\stackrel{\widehat{I}}{\stackrel{\widehat{I}}{\stackrel{\widehat{I}}}\stackrel{\widehat{I}}{\stackrel{\widehat{I}}}\stackrel{\widehat{I}}{\stackrel{\widehat{I}}}\stackrel{\widehat{I}}{\stackrel{\widehat{I}}{\stackrel{\widehat{I}}{\stackrel{\widehat{I}}}\stackrel{\widehat{I}}{\stackrel{\widehat{I}}}\stackrel{\widehat{I}}{\stackrel{\widehat{I}}}\stackrel{\widehat{I}}{\stackrel{\widehat{I}}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}{\stackrel{\widehat{I}}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}}\stackrel{\widehat{I}}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}\stackrel{\widehat{I}}}\stackrel{\widehat{I}}\stackrel{$$

$$\sim \begin{pmatrix} 0 & 3 & 1 & 3 & -2 & 0 \\ 1 & 2 & 1 & -1 & 1 & 0 \\ 0 & 0 & 1 & -2 & 1 & 1 \end{pmatrix} \stackrel{\text{$\widehat{\text{I}}} - \{\widehat{\text{II}}\}}{=} \sim \begin{pmatrix} 0 & 3 & 0 & 5 & -3 & -1 \\ 1 & 2 & 0 & 1 & 0 & -1 \\ 0 & 0 & 1 & -2 & 1 & 1 \end{pmatrix} \stackrel{\text{$\widehat{\text{I}}} : 3}{\sim} \sim$$

$$\sim \begin{pmatrix}
0 & 1 & 0 & | & 5/3 & -1 & -1/3 \\
1 & 2 & 0 & | & 1 & 0 & -1 \\
0 & 0 & 1 & | & -2 & 1 & 1
\end{pmatrix}$$

$$\sim \begin{pmatrix}
1 & 2 & 0 & | & 1 & 0 & -1 \\
0 & 4 & 0 & | & 5/3 & -1 & -1/3 \\
0 & 0 & 1 & | & -2 & 1 & 1
\end{pmatrix}$$

$$\sim \begin{pmatrix}
1 & 2 & 0 & | & 1 & 0 & -1 \\
0 & 4 & 0 & | & 5/3 & -1 & -1/3 \\
0 & 0 & 1 & | & -2 & 1 & 1
\end{pmatrix}$$

$$\sim
 \begin{pmatrix}
 4 & 0 & 0 & | & -7/3 & 2 & & -1/3 \\
 0 & 1 & 0 & | & 5/3 & -1 & & -1/3 \\
 0 & 0 & 1 & | & -2 & 1 & 1
 \end{pmatrix}
 \quad
 3 . A^{-1} =
 \begin{pmatrix}
 -1/3 & 2 & & -1/3 \\
 5/3 & & -1 & & -1/3 \\
 -2 & & 1 & & 1
 \end{pmatrix}$$

1. 4. 45.

$$A = \begin{pmatrix} 4 & 2 & -2 & 4 \\ 2 & 6 & 1 & 0 \\ 3 & 0 & 1 & 2 \\ -1 & 4 & 5 & -4 \end{pmatrix}$$

$$A = \begin{pmatrix} 4 & 2 & -2 & 4 \\ 2 & 6 & 1 & 0 \\ 3 & 0 & 1 & 2 \\ -1 & 4 & 5 & -4 \end{pmatrix}$$

$$A = \begin{pmatrix} 4 & 2 & -2 & 4 \\ 2 & 6 & 1 & 0 \\ 3 & 0 & 1 & 2 \\ -1 & 4 & 5 & -4 \end{pmatrix}$$

$$A = \begin{pmatrix} 4 & 2 & -2 & 4 \\ 0 & 2 & 5 & -8 \\ 0 & -6 & 7 & -10 \\ 0 & 6 & 3 & 0 \end{pmatrix} \begin{bmatrix} 1 + 31 \\ 1 - 31 \end{bmatrix}$$

$$A = \begin{pmatrix} 4 & 2 & -2 & 4 \\ 0 & 2 & 5 & -8 \\ 0 & 0 & 22 & -34 \\ 0 & 0 & 0 & 60/H \end{pmatrix}$$

$$A = \begin{pmatrix} 4 & 2 & -2 & 4 \\ 2 & 6 & 1 & 0 \\ 0 & 0 & 22 & -34 \\ 0 & 0 & 0 & 60/H \end{pmatrix}$$

$$A = \begin{pmatrix} 4 & 2 & -2 & 4 \\ 2 & 6 & 1 & 0 \\ 3 & 0 & 1 & 2 \\ 0 & 0 & 1 & 0 \\ 0 & 3 & 0 & 1 \\ 0 & 0 & 1 & 0 \\ 0 & 6 & 3 & 0 \\ 0 & 6 & 3 & 0 \\ 0 & 6 & 3 & 0 \\ 0 & 6 & 3 & 0 \\ 0 & 6 & 3 & 0 \\ 0 & 6 & 3 & 0 \\ 0 & 0 & 22 & -34 \\ 0 & 0 & -12 & 24 \\ 0 & 1 & 2 & 5 \\ 0 & -6 & 7 & -10 & -3 & 0 & 10 \\ 0 & 6 & 3 & 0 & 1 & 0 & 0 \\ 0 & 6 & 3 & 0 & 1 & 0 & 0 \\ 0 & 6 & 3 & 0 & 1 & 0 & 0 \\ 0 & 6 & 3 & 0 & 1 & 0 & 0 \\ 0 & 1 & 2 & 5 & -4 \\ 0 & 0 & 2 & 5 & -4 \\ 0 & 0 & 2 & 5 & -4 \\ 0 & 0 & 2 & 2 & -34 & -3 & 0 & 10 \\ 0 & 0 & 2 & 2 & -34 & -3 & 0 & 10 \\ 0 & 0 & 2 & 2 & -34 & -3 & 0 & 10 \\ 0 & 0 & 2 & 2 & -34 & -3 & 0 & 10 \\ 0 & 0 & 2 & 2 & -34 & -3 & 0 & 10 \\ 0 & 0 & 2 & 2 & -34 & -3 & 0 & 10 \\ 0 & 0 & 2 & 2 & -34 & -3 & 0 & 10 \\ 0 & 0 & 2 & 2 & -34 & -3 & 0 & 10 \\ 0 & 0 & 2 & 2 & -34 & -3 & 0 & 10 \\ 0 & 0 & 2 & 2 & -34 & -3 & 0 & 10 \\ 0 & 0 & 2 & 2 & -34 & -3 & 0 & 10 \\ 0 & 0 & 2 & 2 & -34 & -3 & 0 & 10 \\ 0 & 0 & -12 & 24 & 7 & -3 & 0 & 1 \end{pmatrix}$$

$$A = \begin{pmatrix} 4 & 0 & -7 & 12 & 3 & -1 & 0 & 0 \\ 0 & 1 & 2 & 5 & -4 \\ 0 & 0 & -12 & 24 & 7 & -3 & 0 & 1 \end{pmatrix}$$

$$A = \begin{pmatrix} 1 & 0 & -7 & 12 & 3 & -1 & 0 & 0 \\ 0 & 1 & 2 & 5 & 5 & 0 \\ 0 & 0 & -12 & 24 & 7 & -3 & 0 & 1 \end{pmatrix}$$

$$A = \begin{pmatrix} 1 & 0 & -7 & 12 & 3 & -1 & 0 & 0 \\ 0 & 1 & -12/H & -$$