```
Marpuya replinga
                                                                                                                                                                                                    \mathbb{R}^2: e_1 = (1, 4), e_2 = (2, 9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C = e'
                                                                                                                                                                                                                                                      e! = (3, 1), e2 = (-1, -2)
                                                                                                                                                                                                       (12/3-1) _____ cogn. Brug
                                                                                                                                                                                                                        1 - (17) - 1 crieba
                                                                                                                                                                                                                    \begin{pmatrix} 1 & 2 \\ 4 & 9 \end{pmatrix}^{-1} \cdot \begin{pmatrix} 3 & -1 \\ 1 & -2 \end{pmatrix} = C
                                                                                                                                                                                                                      \begin{pmatrix} 1 & 2 \\ 4 & 9 \end{pmatrix} = \frac{1}{1 \cdot 9 - 2 \cdot 4} \begin{pmatrix} 9 & -4 \\ -2 & 1 \end{pmatrix} = \begin{pmatrix} 9 & -2 \\ -4 & 1 \end{pmatrix}
                                                                                                                                                                                                                          C = \begin{pmatrix} 9 & -2 \\ -4 & 1 \end{pmatrix} \begin{pmatrix} 3 & -1 \\ 1 & -2 \end{pmatrix} = \begin{pmatrix} 25 & | -5 \\ -11 & 2 \end{pmatrix}
                                                                                                                                                                              e_1 = (1, 4), e_2 = (2, 9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Q1 = 25 e1 - 11 e2
                                                                                                                                                                                                                                                                                                                                                                                                                                                    e2 = -501+202
                                                                                                                                                                              e'_1 = (3, 1), e'_2 = (-1, -2)
                                                                                                                                                                                      U_{1}=(1,2,3) U_{2}=(0,1,1) , U_{3}=(0,0,1) — nun.res.

U_{1}=(2,3,2) , U_{2}=(0,0,0) , U_{3}=(0,0,3)
                                                                                                                                                                                                     A U1=V1, Auz=V2, Auz=V3
                                                                                                                                                                                                      A (u, u, u, u, ) = (v, v, v,)
                                                                                                                                                                                                  A, \begin{pmatrix} 1 & 0 & 0 \\ 2 & 1 & 0 \\ 3 & 1 & 1 \end{pmatrix} = \begin{pmatrix} 2 & 0 & 0 \\ 3 & 0 & 0 \\ 2 & 3 & 3 \end{pmatrix}
                                                                                                                                                                                                  A = \begin{pmatrix} 2 & 0 & 0 \\ 3 & 0 & 0 \\ 2 & 0 & 3 \end{pmatrix} - \begin{pmatrix} 1 & 0 & 0 \\ 2 & 1 & 0 \\ 3 & 1 & 1 \end{pmatrix}^{-1}

\begin{pmatrix}
1 & 0 & 0 & 1 & 0 & 0 \\
2 & 1 & 0 & 9 & 1 & 0
\end{pmatrix}
\xrightarrow{\overline{I}-1\overline{I}}
\begin{pmatrix}
1 & 0 & 0 & 1 & 0 & 0 \\
0 & 1 & 0 & 0 & -2 & 1 & 0
\end{pmatrix}
\xrightarrow{\overline{I}-3\overline{I}}
\begin{pmatrix}
1 & 0 & 0 & 1 & 0 & 0 \\
0 & 1 & 0 & -2 & 1 & 0
\end{pmatrix}
\xrightarrow{\overline{I}-3\overline{I}}
\begin{pmatrix}
1 & 0 & 0 & 1 & 0 & 0 \\
0 & 1 & 0 & -2 & 1 & 0
\end{pmatrix}
\xrightarrow{\overline{I}-3\overline{I}}

                                                                                                                                           \frac{111 - 11}{1} = \frac{1}{1} = \frac{1}{1}
                                                                                                                                                                                                                          \begin{pmatrix} 1 & 0 & 0 \\ 2 & 1 & 0 \\ 3 & 1 & 1 \end{pmatrix} \begin{pmatrix} 1 & 0 & 0 \\ -2 & 1 & 0 \\ -1 & -1 & 1 \end{pmatrix} = \begin{pmatrix} 1 & 0 & 0 \\ 9 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}
                                                                                                                                           A = \begin{pmatrix} 2 & 0 & 0 \\ 3 & 0 & 0 \\ 2 & 0 & 3 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 \\ -2 & 1 & 0 \\ -1 & -1 & 1 \end{pmatrix} = \begin{pmatrix} 2 & 0 & 0 \\ 3 & 0 & 0 \\ -1 & -3 & 3 \end{pmatrix}
                                                                                                                                                                                                          \begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix} \rightarrow \begin{pmatrix} 2 \\ 3 \\ -1 \end{pmatrix}, \begin{pmatrix} 0 \\ 1 \\ 0 \end{pmatrix} \rightarrow \begin{pmatrix} 0 \\ 0 \\ -3 \end{pmatrix}, \begin{pmatrix} 0 \\ 0 \\ 1 \end{pmatrix} \rightarrow \begin{pmatrix} 0 \\ 0 \\ 3 \end{pmatrix}
                                                                                                                                     N2. 4:R2-3R2
                                                                                                                                                   U_1 = (1, 2), U_2 = (0,3), U_3 = (1,4), U_4 = (2,5)
                                                                                                                                                    V_1 = (5,4), \quad V_2 = (6,3), \quad V_3 = (9,6), \quad V_4 = (12,8)
                                                                                                                                                          Au_1 = V_1, Au_2 = V_2
2x2
2x2
                                                                                                                                                                   A. (U1/U2) = (U1/U2)
                                                                                                                                                                                                                                                                                                                                                                                                                                            \begin{pmatrix} 1 & 0 \end{pmatrix}^{-2} = \frac{1}{3} \begin{pmatrix} 3 & 0 \\ -2 & 1 \end{pmatrix}^{-2}
                                                                                                                                                                 A^{\circ} \begin{pmatrix} 1 & 0 \\ 2 & 3 \end{pmatrix} = \begin{pmatrix} 5 & 6 \\ 4 & 3 \end{pmatrix}
                                                                                                                                                                                                                                                                                                                                                                                                                                   =\begin{pmatrix} 1 & 0 \\ -2/3 & 1/3 \end{pmatrix}
                                                                                                                                                                  A = \begin{pmatrix} 5 & 6 \\ 4 & 3 \end{pmatrix} \cdot \begin{pmatrix} 1 & 0 \\ 2 & 3 \end{pmatrix}^{-1} = \begin{pmatrix} 5 & 6 \\ 4 & 3 \end{pmatrix} - \begin{pmatrix} 1 & 0 \\ -2/3 & 1/3 \end{pmatrix} =
                                                                                                                                                                                                                                        =\begin{pmatrix} 1 & 2 \\ 2 & 1 \end{pmatrix}
                                                                                                                                                                                       Au_3=V_3? \qquad \left(\begin{array}{cc}1&2\\2&1\end{array}\right)\left(\begin{array}{cc}1\\4\end{array}\right)=\left(\begin{array}{cc}9\\6\end{array}\right)=V_3
                                                                                                                                                                                                                                                                                                                                    \begin{pmatrix} 1 & 2 \\ 2 & 1 \end{pmatrix} \begin{pmatrix} 2 \\ 5 \end{pmatrix} = \begin{pmatrix} 12 \\ 5 \end{pmatrix} \neq \sqrt{4}
                                                                                                                                                                                    Auy= U4?
                                                                                                                                                                                         Orber: Her
                                                                                                                                                                                                                                                                                                                                                                      0x2+Bx+c
                                                                                                                                                                     V = \mathbb{R}[x]_{\leq 2}
                                                                                                                                                                                                                                                                                                         U:V\to V \qquad \text{matr.} \ A = \begin{pmatrix} 0 & 0 & 1 \\ 0 & 1 & 0 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} 1 
                                                                                                                                                                e= {1, x, x2}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      411) 411) 4(x2)
                                                                                                                                                                            \Psi(1) = \lambda \cdot x^2 = x^2
                                                                                                                                                                                \Psi(x) = x
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Q(x^2) = 1 - 1 + 1 - x^2 = x^2 + 1
                                                                                                                                                                                  e' = \{3x^2 + 2x + 1, x^2 + 3x + 2, 2x^2 + x + 3\}
                                                                                                                                                                                             A = C A C
e se' A e se'

\begin{pmatrix}
1 & 2 & 3 & 1 & 0 & 0 \\
2 & 3 & 1 & 9 & 0 & 0
\end{pmatrix}
\xrightarrow{II-2I}
\begin{pmatrix}
1 & 2 & 3 & 1 & 0 & 0 \\
0 & -1 & -5 & -2 & 1 & 0 \\
0 & -5 & -7 & -30 & 1
\end{pmatrix}

                                                                                                                                              \frac{1-2\pi}{2} \left( \frac{1-5/18}{1/18} \frac{1/18}{7/18} \frac{7/18}{-5/18} \right)
                                                                                                                                                                                                                                                                                                                                                                                                                                         -1/6 - 2/12 = -\frac{5}{18}
                                                                                                                                                                                                                                                                                                                                                                                                                                        5/6 - 14/13 = 1/18
                                                                                                                                                                                                                                                                                                                                                                                                                                     -1/6 +10/18 = 7/18
                                                                                                                                   C^{-1} = \frac{1}{18} \begin{pmatrix} -5 & 7 \\ 7 & -5 \end{pmatrix}
                                                                                                           C^{-1} A C
                                \frac{1}{18} \begin{pmatrix} -5 & 1 \\ 1 & 7 & -5 \\ 2 & -5 & 1 \end{pmatrix} \cdot \begin{pmatrix} 0 & 0 & 1 \\ 0 & 1 & 0 \end{pmatrix} \cdot \begin{pmatrix} 1 & 1 & 3 \\ 2 & 3 & 1 \\ 3 & 1 & 0 \end{pmatrix} = A
                     (2) \left(\frac{2}{-1}, \frac{1}{2}\right) = A
                                                   det(tE-A) = det(t-2) = (t-2) + 1 =
                                                                               = (\xi^2 - 2\xi + 1)^2 Kopens! \xi = 1
                                                            E - A : \begin{pmatrix} -1 & 1 \\ -1 & 1 \end{pmatrix} \qquad - \times_{1} + \times_{2} = 0 \qquad \begin{pmatrix} 1 \\ 1 \end{pmatrix}
                                                                          V_{1} = \{ \langle \langle 1 \rangle | \langle 1 \rangle \rangle \}
V_{1} = \{ \langle \langle 1 \rangle | \langle 1 \rangle \rangle \}
V_{2} = \{ \langle 1 \rangle | \langle 1 \rangle \rangle \}
V_{3} = \{ \langle 1 \rangle | \langle 1 \rangle \rangle \}
V_{4} = \{ \langle 1 \rangle | \langle 1 \rangle \rangle \}
V_{5} = \{ \langle 1 \rangle | \langle 1 \rangle \rangle \}
V_{6} = \{ \langle 1 \rangle | \langle 1 \rangle \rangle \}
V_{7} = \{ \langle 1 \rangle | \langle 1 \rangle \rangle \}
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V_{1} = \{ \langle 1 \rangle | \langle 1 \rangle \rangle \}
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V_{8
                                         dim V, < 2 => tre gnorshanuz
\begin{array}{c} 5) - (-1 \ 3 \ -1) \\ (-3 \ 5 \ -1) \\ (-3 \ 3 \ 1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 3 \ 1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 3 \ 1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 3 \ 1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 3 \ 1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 3 \ 1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 3 \ 1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 3 \ 1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 3 \ 1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 3 \ 1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 3 \ 1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 3 \ 1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 3 \ 1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 3 \ 1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 3 \ 1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1) \\ (-7 \ 4 \ -1) \end{array} = A \qquad \begin{array}{c} (-7 \ 4 \ -1
     \chi_{\Delta}(E) = E^3 - (E-A)E^2 + (----)E - (deEA)
                                  |-13 |+ |5-1 |+ |-1-1 |= 4+8-4=8
|-35 |+ |31 |+ |-31 |= 4+8-4=8
                          E<sup>3</sup>-5E<sup>2</sup>+8E-4=0
                                         E = 1 (E - 1)(E - 4E + 4) = (E - 1)(E - 2)
                                                                                                                                                                             4 t + 4 t = 8 t
                                                    C.3.: 1, 2
                                            dim V_1 = 1
                        \begin{pmatrix} -1 & 3 & -1 \\ -3 & 5 & -1 \end{pmatrix} - \begin{bmatrix} -1 & -2 & 3 & -1 \\ -3 & 5 & -1 \end{bmatrix} - \begin{bmatrix} -1 & -2 & 3 & -1 \\ -3 & 3 & 0 \end{bmatrix}
                                   V_{1} = \left\langle \begin{pmatrix} 1 \\ 1 \end{pmatrix} \right\rangle
V_{2} = \left\langle \begin{pmatrix} 1 \\ 1 \end{pmatrix} \right\rangle
\begin{pmatrix} -1 & 3 & -1 \\ -3 & 5 & -1 \end{pmatrix} - 2E = \begin{pmatrix} -3 & 3 & -1 \\ -3 & 3 & -1 \end{pmatrix} - 3 \begin{pmatrix} (-3 & 3 & -1) \\ -3 & 3 & 1 \end{pmatrix} - 2E = \begin{pmatrix} -3 & 3 & -1 \\ -3 & 3 & -1 \end{pmatrix} - 3x_{\lambda} + 3x_{z} - x_{y} = 0
                                                                        V_2 = \left\langle \begin{pmatrix} 1 \\ 1 \\ 3 \end{pmatrix}, \begin{pmatrix} -1/3 \\ 0 \\ 3 \end{pmatrix} \right\rangle
                                         din Ve+ din V2 = 3 = Jin R3
                                      A \sim S \left( \begin{array}{c} 1 & 0 & 0 \\ 0 & 2 & 0 \\ 0 & 0 & 2 \end{array} \right)
```

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