$$\begin{pmatrix} a_{11}-\lambda & a_{12} & a_{13} \\ a_{21} & a_{22}-\lambda & a_{23} \\ a_{31} & a_{32} & a_{33}-\lambda \end{pmatrix}$$

$$\begin{array}{ccccccccccc} & & & & 1 & & 1 & & & & \\ & & & 1 & & 2 & & 1 & & & \\ & & 1 & & 3 & & 3 & & 1 & & \\ & 1 & & 4 & & 6 & & 4 & & 1 & \\ 1 & & 5 & & 10 & & 10 & & 5 & & 1 \end{array}$$

$$\begin{vmatrix} 0 & 0 & \dots. & a_1 \\ 1 & 0 & \dots. & a_2 \\ \dots\dots\dots\dots\dots & & & \\ \dots. & 1 & 0 & a_{n-1} \\ 0 & \dots. & 1 & a_n \end{vmatrix}$$

$$\begin{pmatrix} a_{11} & a_{12} & \dots & a_{1n} \\ a_{21} & a_{22} & \dots & a_{2n} \\ \vdots & \vdots & \ddots & \vdots \\ a_{n1} & a_{n2} & \dots & a_{nn} \end{pmatrix}$$

$[X,Y] = \left(\begin{smallmatrix} 1 & 0 \\ 0 & -1 \end{smallmatrix}\right)$

$$\begin{pmatrix} a_{11}-\lambda & a_{12} & a_{13} \\ a_{21} & a_{22}-\lambda & a_{23} \\ a_{31} & a_{32} & a_{33}-\lambda \end{pmatrix}$$

$$\begin{pmatrix} ||\mathbf{A}_{11}^{(-1)}|| & ||\mathbf{A}_{12}^{(-1)}|| \\ ||\mathbf{A}_{21}^{(-1)}|| & ||\mathbf{A}_{22}^{(-1)}|| \end{pmatrix} \le \frac{\begin{pmatrix} ||\mathbf{A}_{22}^{-1}||^{-1} & ||\mathbf{A}_{12}|| \\ ||\mathbf{A}_{21}^{-1}|| & ||\mathbf{A}_{11}^{-1}||^{-1} \end{pmatrix}}{||\mathbf{A}_{11}^{-1}||^{-1}||\mathbf{A}_{22}^{-1}||^{-1} - ||\mathbf{A}_{12}||||\mathbf{A}_{21}||}.$$

$$(-1)^p \det \mathbf{C} \begin{pmatrix} i_1 & i_2 & \dots & i_p \\ i_1 & i_2 & \dots & i_p \end{pmatrix} > 0, \begin{array}{l} 1 \le i_1 < i_2 < \dots < i_p \le n; \\ p = 1, 2, \dots, n, \end{array} \tag{1}$$

$$\mathbf{W} = \mathbf{W}(\mathbf{a}_1, \dots, \mathbf{a}_n) = \begin{pmatrix} 1 & 1 & \dots & 1 \\ \mathbf{a}_1 & \mathbf{a}_2 & \dots & \mathbf{a}_n \\ \mathbf{a}_1^2 & \mathbf{a}_2^2 & \dots & \mathbf{a}_n^2 \\ \dots & \dots & \dots & \dots \\ \mathbf{a}_1^{n-1} & \mathbf{a}_2^{n-1} & \dots & \mathbf{a}_n^{n-1} \end{pmatrix}, \tag{2}$$

$$\mathbf{W}^{-1}(\mathbf{a},\mathbf{b},\mathbf{c}) = \begin{pmatrix} [\mathbf{a},\mathbf{b},\mathbf{c}]^{-1} & 0 & 0 \\ 0 & [\mathbf{b},\mathbf{c},\mathbf{a}]^{-1} & 0 \\ 0 & 0 & [\mathbf{c},\mathbf{a},\mathbf{b}]^{-1} \end{pmatrix} \times$$

$$\times \begin{pmatrix} -\mathbf{b}^2 + (\mathbf{c}^2 - \mathbf{a}^2)(\mathbf{c}-\mathbf{a})^{-1}\mathbf{b} & -(\mathbf{b}^2 - \mathbf{c}^2)(\mathbf{b}-\mathbf{c})^{-1} & 1 \\ -\mathbf{c}^2 + (\mathbf{a}^2 - \mathbf{b}^2)(\mathbf{a}-\mathbf{b})^{-1}\mathbf{c} & -(\mathbf{c}^2 - \mathbf{a}^2)(\mathbf{c}-\mathbf{a})^{-1} & 1 \\ -\mathbf{a}^2 + (\mathbf{b}^2 - \mathbf{c}^2)(\mathbf{b}-\mathbf{c})^{-1}\mathbf{a} & -(\mathbf{a}^2 - \mathbf{b}^2)(\mathbf{a}-\mathbf{b})^{-1} & 1 \end{pmatrix}.$$

$$\mathbf{x},\mathbf{h}]_i = \lim_{0<t\to 0} \begin{cases} \mathrm{Re}\frac{x_i\overline{h}_i}{|x_i|}, & \text{если } x_i \neq 0; \\ |h_i|, & \text{если } x_i = 0, \end{cases} \tag{3}$$

$$[\mathbf{e}_j, \mathbf{A}\mathbf{e}_j] = \begin{pmatrix} |a_{1j}| \\ \dots \\ \mathrm{Re}\ a_{jj} \\ \dots \\ |a_{nj}| \end{pmatrix} \leq \begin{pmatrix} c_{1j} \\ \dots \\ c_{jj} \\ \dots \\ c_{nj} \end{pmatrix},$$