$$\begin{pmatrix} \frac{1}{2} & -\frac{1}{2} \\ \frac{1}{3} & \frac{1}{4} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} & -\frac{1}{2} \\[2pt] \frac{1}{3} & \frac{1}{4} \end{pmatrix} \tag{1}$$

$$A = \begin{pmatrix} \frac{1}{\sqrt{1+p^2}} & p & 1-p \\ 1 & 1 & 1 \\ 1 & p & 1+p \end{pmatrix} \tag{2}$$

$$A = \left(\begin{array}{cc|cc} \dfrac{1}{A} & \dfrac{1}{B} & 0 & 0 \\ \dfrac{1}{C} & \dfrac{1}{D} & 0 & 0 \\ \hline 0 & 0 & A & B \\ 0 & 0 & D & D \end{array}\right) \tag{3}$$

$$\begin{array}{|c|c|c|c|c|} \hline x \backslash y & e & a & b & c \\ \hline e & e & a & b & c \\ \hline a & a & e & c & b \\ \hline b & b & c & e & a \\ \hline c & c & b & a & e \\ \hline \end{array} \tag{4}$$

$$\begin{array}{ccc} & \color{red}{C_1 \cdots\cdots\cdots\cdots C_4} & \\ \color{blue}{L_1} & \multirow{4}{*}{$\left(\begin{array}{cc|cc} a_{11} & a_{12} & a_{13} & a_{14} \\ a_{21} & a_{22} & a_{23} & a_{24} \\ \hline a_{31} & a_{32} & a_{33} & a_{34} \\ a_{41} & a_{42} & a_{43} & a_{44} \end{array}\right)$} & \color{magenta}{L_1} \\ \color{blue}{\vdots} & & \color{magenta}{\vdots} \\ \color{blue}{\vdots} & & \color{magenta}{\vdots} \\ \color{blue}{L_4} & & \color{magenta}{L_4} \\ & \color{green}{C_1 \cdots\cdots\cdots\cdots C_4} & \end{array} \tag{5}$$

$$\begin{array}{c} \color{red}{C_1 \cdots\cdots\cdots\cdots\cdots C_n} \\ \begin{pmatrix} 2.3 & 0 & \cdots & 0 \\ 12.4 & \vdots & & \vdots \\ 1.45 & \vdots & & \vdots \\ 7.2 & 0 & \cdots & 0 \end{pmatrix} \end{array} \tag{6}$$

1								
1	1							
1	2	1						
1	3	3	1					
1	4	6	4	1				
1	5	10	10	5	1			
1	6	15	20	15	6	1		
1	7	21	35	35	21	7	1	
1	8	28	56	70	56	28	8	1

$$\begin{bmatrix}
C[a_1,a_1] & \cdots & C[a_1,a_n] & & C[a_1,a_1^{(p)}] & \cdots & C[a_1,a_n^{(p)}] \\
\vdots & \ddots & \vdots & \cdots & \vdots & \ddots & \vdots \\
C[a_n,a_1] & \cdots & C[a_n,a_n] & & C[a_n,a_1^{(p)}] & \cdots & C[a_n,a_n^{(p)}] \\
 & \vdots & & \ddots & & \vdots & \\
C[a_1^{(p)},a_1] & \cdots & C[a_1^{(p)},a_n] & & C[a_1^{(p)},a_1^{(p)}] & \cdots & C[a_1^{(p)},a_n^{(p)}] \\
\vdots & \ddots & \vdots & \cdots & \vdots & \ddots & \vdots \\
C[a_n^{(p)},a_1] & \cdots & C[a_n^{(p)},a_n] & & C[a_n^{(p)},a_1^{(p)}] & \cdots & C[a_n^{(p)},a_n^{(p)}]
\end{bmatrix}$$