$$
\begin{bmatrix}
1 & 0 & 0 & 0 & 0 & 0 \\
0 & 1 & 0 & 0 & 0 & 0 \\
0 & 0 & 1 & 0 & 0 & 0 \\
0 & 0 & 0 & 1 & 0 & 0 \\
0 & 0 & 0 & 0 & 1 & 0 \\
0 & 0 & 0 & 0 & 0 & 1 \\
a_{00} & a_{01} & a_{02} & a_{03} & a_{04} & a_{05} \\
a_{10} & a_{11} & a_{12} & a_{13} & a_{14} & a_{15} \\
a_{20} & a_{21} & a_{22} & a_{23} & a_{24} & a_{25}
\end{bmatrix}
*
\begin{bmatrix}
d_0 \\ d_1 \\ d_2 \\ d_3 \\ d_4 \\ d_5
\end{bmatrix}
=
\begin{bmatrix}
d_0 \\ d_1 \\ d_2 \\ d_3 \\ d_4 \\ d_5 \\ c_0 \\ c_1 \\ c_2
\end{bmatrix}
$$

$$
\begin{bmatrix}
1 & 0 & 0 & 0 & 0 & 0 \\
0 & 1 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 1 \\
a_{00} & a_{01} & a_{02} & a_{03} & a_{04} & a_{05} \\
a_{10} & a_{11} & a_{12} & a_{13} & a_{14} & a_{15} \\
a_{20} & a_{21} & a_{22} & a_{23} & a_{24} & a_{25}
\end{bmatrix}
*
\begin{bmatrix}
d_0 \\ d_1 \\ d_{2?} \\ d_{3?} \\ d_{4?} \\ d_5
\end{bmatrix}
=
\begin{bmatrix}
d_0 \\ d_1 \\ d_5 \\ c_0 \\ c_1 \\ c_2
\end{bmatrix}
$$

$$
\begin{bmatrix}
d_0 \\ d_1 \\ d_{2?} \\ d_{3?} \\ d_{4?} \\ d_5
\end{bmatrix}
=
\begin{bmatrix}
1 & 0 & 0 & 0 & 0 & 0 \\
0 & 1 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 1 \\
a_{00} & a_{01} & a_{02} & a_{03} & a_{04} & a_{05} \\
a_{10} & a_{11} & a_{12} & a_{13} & a_{14} & a_{15} \\
a_{20} & a_{21} & a_{22} & a_{23} & a_{24} & a_{25}
\end{bmatrix}^{-1}
*
\begin{bmatrix}
d_0 \\ d_1 \\ d_5 \\ c_0 \\ c_1 \\ c_2
\end{bmatrix}
$$

$$
\begin{bmatrix}
1 & a_1 & a_1^2 & a_1^3 & a_1^4 & a_1^5 \\
1 & a_2 & a_2^2 & a_2^3 & a_2^4 & a_2^5 \\
1 & a_3 & a_3^2 & a_3^3 & a_3^4 & a_3^5 \\
1 & a_4 & a_4^2 & a_4^3 & a_4^4 & a_4^5 \\
1 & a_5 & a_5^2 & a_5^3 & a_5^4 & a_5^5 \\
1 & a_6 & a_6^2 & a_6^3 & a_6^4 & a_6^5
\end{bmatrix}
$$

$$
\prod_{1 \le i < j < n} (a_j - a_i)
$$

$$
\begin{bmatrix}
1 & 0 & 0 & 0 & 0 & 0 \\
0 & 1 & 0 & 0 & 0 & 0 \\
0 & 0 & 1 & 0 & 0 & 0 \\
0 & 0 & 0 & 1 & 0 & 0 \\
0 & 0 & 0 & 0 & 1 & 0 \\
0 & 0 & 0 & 0 & 0 & 1 \\
1 & 1 & 1 & 1 & 1 & 1 \\
1 & 2 & 4 & 8 & 16 & 32 \\
1 & 3 & 9 & 27 & 81 & 243
\end{bmatrix}
$$

$$
\left[\begin{array}{cccccc|cccccc}
1 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 1 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 1 & 0 & 0 & 0 \\
1 & 1 & 1 & 1 & 1 & 1 & 0 & 0 & 0 & 1 & 0 & 0 \\
1 & 2 & 4 & 8 & 16 & 32 & 0 & 0 & 0 & 0 & 1 & 0 \\
1 & 3 & 9 & 27 & 81 & 243 & 0 & 0 & 0 & 0 & 0 & 1
\end{array}\right]
$$

⬇ *Step1,2*

$$
\left[\begin{array}{cccccc|cccccc}
1 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 1 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 1 & 0 & 0 & 0 \\
1 & 1 & 1 & 1 & 1 & 1 & 0 & 0 & 0 & 1 & 0 & 0 \\
1 & 2 & 4 & 8 & 16 & 32 & 0 & 0 & 0 & 0 & 1 & 0 \\
1 & 3 & 9 & 27 & 81 & 243 & 0 & 0 & 0 & 0 & 0 & 1
\end{array}\right]
$$

⬇ *Step3*

$$
\left[\begin{array}{cccccc|cccccc}
1 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 1 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 1 & 0 & 0 & 0 \\
0 & 1 & 1 & 1 & 1 & 1 & -1 & 0 & 0 & 1 & 0 & 0 \\
0 & 2 & 4 & 8 & 16 & 32 & -1 & 0 & 0 & 0 & 1 & 0 \\
0 & 3 & 9 & 27 & 81 & 243 & -1 & 0 & 0 & 0 & 0 & 1
\end{array}\right]
$$