

> # Generated by Jerzy Białkowski

$$nr := 1$$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & -2 & 0 & 0 \\ 0 & 2 & 0 & -2 & 0 \\ 0 & 0 & 2 & 0 & -2 \\ -1 & 0 & 0 & 2 & 0 \end{bmatrix}, \begin{bmatrix} 4C_{4,4} & 2C_{4,4} & 4C_{4,4} & 2C_{4,4} & 4C_{4,4} \\ -(2,1) & C_{4,4} & 2C_{4,4} & C_{4,4} & 2C_{4,4} \\ -(3,1) & -(3,2) & 4C_{4,4} & 2C_{4,4} & 4C_{4,4} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 2C_{4,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{4,4} \end{bmatrix}, \begin{bmatrix} 2V_4 \\ V_4 \\ 2V_4 \\ V_4 \\ 2V_4 \end{bmatrix}$$

$$nr := 2$$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & -2 & 0 & 0 \\ 0 & 2 & 0 & -2 & 0 \\ 0 & 0 & 2 & 0 & -1 \\ -1 & 0 & 0 & 1 & 0 \end{bmatrix}, \begin{bmatrix} C_{4,4} & C_{4,4} & C_{4,4} & C_{4,4} & 2C_{4,4} \\ -(2,1) & C_{4,4} & C_{4,4} & C_{4,4} & 2C_{4,4} \\ -(3,1) & -(3,2) & C_{4,4} & C_{4,4} & 2C_{4,4} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 2C_{4,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{4,4} \end{bmatrix}, \begin{bmatrix} V_4 \\ V_4 \\ V_4 \\ V_4 \\ 2V_4 \end{bmatrix}$$

$$nr := 3$$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & -2 & 0 & 0 \\ 0 & 2 & 0 & -1 & -1 \\ 0 & 0 & 1 & 0 & -1 \\ -1 & 0 & 1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} 4C_{2,2} & 2C_{2,2} & 4C_{2,2} & 0 & 4C_{2,2} \\ -(2,1) & C_{2,2} & 2C_{2,2} & 0 & 2C_{2,2} \\ -(3,1) & -(3,2) & 4C_{2,2} & 0 & 4C_{2,2} \\ -(4,1) & -(4,2) & -(4,3) & 0 & 0 \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{2,2} \end{bmatrix}, \begin{bmatrix} 2V_2 \\ V_2 \\ 2V_2 \\ 0 \\ 2V_2 \end{bmatrix}$$

$$nr := 4$$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & -2 & 0 & 0 \\ 0 & 2 & 0 & -1 & 0 \\ 0 & 0 & 1 & 0 & -2 \\ -1 & 0 & 0 & 2 & 0 \end{bmatrix}, \begin{bmatrix} 16C_{2,2} & 4C_{2,2} & 16C_{2,2} & 8C_{2,2} & 8C_{2,2} \\ -(2,1) & C_{2,2} & 4C_{2,2} & 2C_{2,2} & 2C_{2,2} \\ -(3,1) & -(3,2) & 16C_{2,2} & 8C_{2,2} & 8C_{2,2} \\ -(4,1) & -(4,2) & -(4,3) & 4C_{2,2} & 4C_{2,2} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{2,2} \end{bmatrix}, \begin{bmatrix} 4V_2 \\ V_2 \\ 4V_2 \\ 2V_2 \\ 2V_2 \end{bmatrix}$$

$$nr := 5$$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & -2 & 0 & 0 \\ 0 & 2 & 0 & -1 & 0 \\ 0 & 0 & 1 & 0 & -1 \\ -1 & 0 & 0 & 1 & 0 \end{bmatrix}, \begin{bmatrix} 4C_{2,2} & 2C_{2,2} & 4C_{2,2} & 4C_{2,2} & 4C_{2,2} \\ -(2,1) & C_{2,2} & 2C_{2,2} & 2C_{2,2} & 2C_{2,2} \\ -(3,1) & -(3,2) & 4C_{2,2} & 4C_{2,2} & 4C_{2,2} \\ -(4,1) & -(4,2) & -(4,3) & 4C_{2,2} & 4C_{2,2} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{2,2} \end{bmatrix}, \begin{bmatrix} 2V_2 \\ V_2 \\ 2V_2 \\ 2V_2 \\ 2V_2 \end{bmatrix}$$

$$nr := 6$$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & -2 & 0 & 0 \\ 0 & 2 & 0 & 0 & -2 \\ 0 & 0 & 0 & 0 & 0 \\ -1 & 0 & 2 & 0 & 0 \end{bmatrix}, \begin{bmatrix} 0 & 0 & 0 & 0 & 0 \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & 0 & 0 & 0 \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 0 \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 0 \end{bmatrix}, \begin{bmatrix} 0 \\ 0 \\ 0 \\ V_4 \\ 0 \end{bmatrix}$$

nr := 7

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & -2 & 0 & 0 \\ 0 & 2 & 0 & 0 & -1 \\ 0 & 0 & 0 & 0 & 0 \\ -1 & 0 & 1 & 0 & 0 \end{bmatrix}, \begin{bmatrix} C_{3,3} & C_{2,3} & C_{3,3} & C_{3,4} & 2C_{2,3} \\ -(2,1) & C_{2,2} & C_{2,3} & C_{2,4} & 2C_{2,2} \\ -(3,1) & -(3,2) & C_{3,3} & C_{3,4} & 2C_{2,3} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 2C_{2,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{2,2} \end{bmatrix}, \begin{bmatrix} V_3 \\ V_2 \\ V_3 \\ V_4 \\ 2V_2 \end{bmatrix}$$

$nr := 8$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & -1 & -1 & -1 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & 1 & 0 & -1 \\ -1 & 1 & 1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} C_{4,4} & C_{4,4} & C_{4,4} & -C_{4,4} & 2C_{4,4} \\ -(2,1) & C_{4,4} & C_{4,4} & -C_{4,4} & 2C_{4,4} \\ -(3,1) & -(3,2) & C_{4,4} & -C_{4,4} & 2C_{4,4} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & -2C_{4,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{4,4} \end{bmatrix}, \begin{bmatrix} -V_4 \\ -V_4 \\ -V_4 \\ V_4 \\ -2V_4 \end{bmatrix}$$

$nr := 9$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & -1 & -1 & -1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 1 & 0 & -1 \\ -1 & 1 & 0 & 1 & 0 \end{bmatrix}, \begin{bmatrix} 4C_{4,4} & 2C_{4,4} & 2C_{4,4} & 2C_{4,4} & 4C_{4,4} \\ -(2,1) & C_{4,4} & C_{4,4} & C_{4,4} & 2C_{4,4} \\ -(3,1) & -(3,2) & C_{4,4} & C_{4,4} & 2C_{4,4} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 2C_{4,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{4,4} \end{bmatrix}, \begin{bmatrix} 2V_4 \\ V_4 \\ V_4 \\ V_4 \\ 2V_4 \end{bmatrix}$$

$nr := 10$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & -1 & -1 & -1 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 1 & 1 & 0 & -1 \\ -1 & 1 & -1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} 9C_{3,3} & 3C_{3,3} & 3C_{3,3} & 9C_{3,3} & 6C_{3,3} \\ -(2,1) & C_{3,3} & C_{3,3} & 3C_{3,3} & 2C_{3,3} \\ -(3,1) & -(3,2) & C_{3,3} & 3C_{3,3} & 2C_{3,3} \\ -(4,1) & -(4,2) & -(4,3) & 9C_{3,3} & 6C_{3,3} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{3,3} \end{bmatrix}, \begin{bmatrix} 3V_3 \\ V_3 \\ V_3 \\ 3V_3 \\ 2V_3 \end{bmatrix}$$

$nr := 11$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & -1 & -1 & -1 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & 0 & -1 \\ -1 & 1 & 1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} 0 & 0 & 0 & 0 & 0 \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & C_{4,4} & -C_{4,4} & 0 \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 0 \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 0 \end{bmatrix}, \begin{bmatrix} 0 \\ 0 \\ -V_4 \\ V_4 \\ 0 \end{bmatrix}$$

$nr := 12$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & -1 & -1 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & 1 & 0 & -1 \\ -1 & 0 & 1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} 0 & 0 & 0 & 0 & 0 \\ -(2,1) & C_{4,4} & C_{4,4} & -C_{4,4} & 2C_{4,4} \\ -(3,1) & -(3,2) & C_{4,4} & -C_{4,4} & 2C_{4,4} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & -2C_{4,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{4,4} \end{bmatrix}, \begin{bmatrix} 0 \\ -V_4 \\ -V_4 \\ V_4 \\ -2V_4 \end{bmatrix}$$

$nr := 13$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & -1 & -1 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 1 & 0 & -2 \\ -1 & 0 & 0 & 2 & 0 \end{bmatrix}, \begin{bmatrix} 4C_{4,4} & 2C_{4,4} & 6C_{4,4} & 2C_{4,4} & 4C_{4,4} \\ -(2,1) & C_{4,4} & 3C_{4,4} & C_{4,4} & 2C_{4,4} \\ -(3,1) & -(3,2) & 9C_{4,4} & 3C_{4,4} & 6C_{4,4} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 2C_{4,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{4,4} \end{bmatrix}, \begin{bmatrix} 2V_4 \\ V_4 \\ 3V_4 \\ V_4 \\ 2V_4 \end{bmatrix}$$

$nr := 14$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & -1 & -1 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 1 & 0 & -1 \\ -1 & 0 & 0 & 1 & 0 \end{bmatrix}, \begin{bmatrix} C_{4,4} & C_{4,4} & C_{4,4} & C_{4,4} & 2C_{4,4} \\ -(2,1) & C_{4,4} & C_{4,4} & C_{4,4} & 2C_{4,4} \\ -(3,1) & -(3,2) & C_{4,4} & C_{4,4} & 2C_{4,4} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 2C_{4,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{4,4} \end{bmatrix}, \begin{bmatrix} V_4 \\ V_4 \\ V_4 \\ V_4 \\ 2V_4 \end{bmatrix}$$

$nr:=15$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & -1 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 1 & 1 & 0 & -2 \\ -1 & 0 & -1 & 2 & 0 \end{bmatrix}, \begin{bmatrix} 9C_{2,2} & 3C_{2,2} & 9C_{2,2} & 9C_{2,2} & 6C_{2,2} \\ -(2,1) & C_{2,2} & 3C_{2,2} & 3C_{2,2} & 2C_{2,2} \\ -(3,1) & -(3,2) & 9C_{2,2} & 9C_{2,2} & 6C_{2,2} \\ -(4,1) & -(4,2) & -(4,3) & 9C_{2,2} & 6C_{2,2} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{2,2} \end{bmatrix}, \begin{bmatrix} 3V_2 \\ V_2 \\ 3V_2 \\ 3V_2 \\ 2V_2 \end{bmatrix}$$

$nr:=16$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & -1 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 1 & 1 & 0 & -1 \\ -1 & 0 & -1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} 4C_{3,3} & 2C_{3,3} & 2C_{3,3} & 6C_{3,3} & 4C_{3,3} \\ -(2,1) & C_{3,3} & C_{3,3} & 3C_{3,3} & 2C_{3,3} \\ -(3,1) & -(3,2) & C_{3,3} & 3C_{3,3} & 2C_{3,3} \\ -(4,1) & -(4,2) & -(4,3) & 9C_{3,3} & 6C_{3,3} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{3,3} \end{bmatrix}, \begin{bmatrix} 2V_3 \\ V_3 \\ V_3 \\ 3V_3 \\ 2V_3 \end{bmatrix}$$

$nr:=17$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & -1 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & 0 & -1 \\ -1 & 0 & 1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} 0 & 0 & 0 & 0 & 0 \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & C_{4,4} & -C_{4,4} & 0 \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 0 \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 0 \end{bmatrix}, \begin{bmatrix} 0 \\ 0 \\ -V_4 \\ V_4 \\ 0 \end{bmatrix}$$

$nr:=18$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & -1 & 0 & -1 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 0 & 2 & 0 & -1 \\ -1 & 1 & 0 & 1 & 0 \end{bmatrix}, \begin{bmatrix} 9C_{4,4} & 6C_{4,4} & 6C_{4,4} & 3C_{4,4} & 12C_{4,4} \\ -(2,1) & 4C_{4,4} & 4C_{4,4} & 2C_{4,4} & 8C_{4,4} \\ -(3,1) & -(3,2) & 4C_{4,4} & 2C_{4,4} & 8C_{4,4} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 4C_{4,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 16C_{4,4} \end{bmatrix}, \begin{bmatrix} 3V_4 \\ 2V_4 \\ 2V_4 \\ V_4 \\ 4V_4 \end{bmatrix}$$

$nr:=19$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & -1 & 0 & -1 \\ 0 & 1 & 0 & -2 & 1 \\ 0 & 0 & 2 & 0 & -1 \\ -1 & 1 & -1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} \frac{9}{4}C_{3,3} & \frac{3}{2}C_{3,3} & \frac{3}{2}C_{3,3} & \frac{9}{4}C_{3,3} & 3C_{3,3} \\ -(2,1) & C_{3,3} & C_{3,3} & \frac{3}{2}C_{3,3} & 2C_{3,3} \\ -(3,1) & -(3,2) & C_{3,3} & \frac{3}{2}C_{3,3} & 2C_{3,3} \\ -(4,1) & -(4,2) & -(4,3) & \frac{9}{4}C_{3,3} & 3C_{3,3} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{3,3} \end{bmatrix}, \begin{bmatrix} \frac{3}{2}V_3 \\ V_3 \\ V_3 \\ \frac{3}{2}V_3 \\ 2V_3 \end{bmatrix}$$

$nr:=20$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & -1 & 0 & -1 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 0 & 1 & 0 & -1 \\ -1 & 1 & 1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} 4C_{4,4} & 2C_{4,4} & 4C_{4,4} & -2C_{4,4} & 4C_{4,4} \\ -(2,1) & C_{4,4} & 2C_{4,4} & -C_{4,4} & 2C_{4,4} \\ -(3,1) & -(3,2) & 4C_{4,4} & -2C_{4,4} & 4C_{4,4} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & -2C_{4,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{4,4} \end{bmatrix}, \begin{bmatrix} -2V_4 \\ -V_4 \\ -2V_4 \\ V_4 \\ -2V_4 \end{bmatrix}$$

$nr:=21$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & -1 & 0 & -1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & 0 & -1 \\ -1 & 1 & 0 & 1 & 0 \end{bmatrix}, \begin{bmatrix} 4C_{4,4} & 2C_{4,4} & 4C_{4,4} & 2C_{4,4} & 4C_{4,4} \\ -(2,1) & C_{4,4} & 2C_{4,4} & C_{4,4} & 2C_{4,4} \\ -(3,1) & -(3,2) & 4C_{4,4} & 2C_{4,4} & 4C_{4,4} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 2C_{4,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{4,4} \end{bmatrix}, \begin{bmatrix} 2V_4 \\ V_4 \\ 2V_4 \\ V_4 \\ 2V_4 \end{bmatrix}$$

$nr:=22$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & -1 & 0 & -1 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 0 & 1 & 0 & -1 \\ -1 & 1 & -1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} 4C_{2,2} & 2C_{2,2} & 4C_{2,2} & 6C_{2,2} & 4C_{2,2} \\ -(2,1) & C_{2,2} & 2C_{2,2} & 3C_{2,2} & 2C_{2,2} \\ -(3,1) & -(3,2) & 4C_{2,2} & 6C_{2,2} & 4C_{2,2} \\ -(4,1) & -(4,2) & -(4,3) & 9C_{2,2} & 6C_{2,2} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{2,2} \end{bmatrix}, \begin{bmatrix} 2V_2 \\ V_2 \\ 2V_2 \\ 3V_2 \\ 2V_2 \end{bmatrix}$$

$nr:=23$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & -1 & 0 & -1 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 0 & 0 \\ -1 & 1 & 1 & 0 & 0 \end{bmatrix}, \begin{bmatrix} 0 & 0 & 0 & 0 & 0 \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & 0 & 0 & 0 \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 0 \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 0 \end{bmatrix}, \begin{bmatrix} 0 \\ 0 \\ 0 \\ V_4 \\ 0 \end{bmatrix}$$

$nr:=24$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & -1 & 0 & -1 \\ 0 & 1 & 0 & 1 & -1 \\ 0 & 0 & -1 & 0 & 1 \\ -1 & 1 & 1 & -1 & 0 \end{bmatrix}, \begin{bmatrix} 4C_{4,4} & 2C_{4,4} & 4C_{4,4} & 2C_{4,4} & 4C_{4,4} \\ -(2,1) & C_{4,4} & 2C_{4,4} & C_{4,4} & 2C_{4,4} \\ -(3,1) & -(3,2) & 4C_{4,4} & 2C_{4,4} & 4C_{4,4} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 2C_{4,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{4,4} \end{bmatrix}, \begin{bmatrix} 2V_4 \\ V_4 \\ 2V_4 \\ V_4 \\ 2V_4 \end{bmatrix}$$

$nr:=25$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & -1 & 0 & 0 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 0 & 2 & 0 & -1 \\ -1 & 0 & 0 & 1 & 0 \end{bmatrix}, \begin{bmatrix} C_{4,4} & 2C_{4,4} & 2C_{4,4} & C_{4,4} & 4C_{4,4} \\ -(2,1) & 4C_{4,4} & 4C_{4,4} & 2C_{4,4} & 8C_{4,4} \\ -(3,1) & -(3,2) & 4C_{4,4} & 2C_{4,4} & 8C_{4,4} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 4C_{4,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 16C_{4,4} \end{bmatrix}, \begin{bmatrix} V_4 \\ 2V_4 \\ 2V_4 \\ V_4 \\ 4V_4 \end{bmatrix}$$

$nr:=26$



$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & -1 & 0 & 0 \\ 0 & 1 & 0 & 1 & -1 \\ 0 & 0 & -1 & 0 & 1 \\ -1 & 0 & 1 & -1 & 0 \end{bmatrix}, \begin{bmatrix} C_{4,4} & C_{4,4} & 2C_{4,4} & C_{4,4} & 2C_{4,4} \\ -(2,1) & C_{4,4} & 2C_{4,4} & C_{4,4} & 2C_{4,4} \\ -(3,1) & -(3,2) & 4C_{4,4} & 2C_{4,4} & 4C_{4,4} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 2C_{4,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{4,4} \end{bmatrix}, \begin{bmatrix} V_4 \\ V_4 \\ 2V_4 \\ V_4 \\ 2V_4 \end{bmatrix}$$

$nr:=34$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & 0 & 0 & -2 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \\ -1 & 2 & 0 & 0 & 0 \end{bmatrix}, \begin{bmatrix} 4C_{2,2} & 2C_{2,2} & 2C_{2,3} & 2C_{2,4} & 4C_{2,2} \\ -(2,1) & C_{2,2} & C_{2,3} & C_{2,4} & 2C_{2,2} \\ -(3,1) & -(3,2) & C_{3,3} & C_{3,4} & 2C_{2,3} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 2C_{2,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{2,2} \end{bmatrix}, \begin{bmatrix} 2V_2 \\ V_2 \\ V_3 \\ V_4 \\ 2V_2 \end{bmatrix}$$

$nr:=35$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & 0 & 0 & -1 \\ 0 & 0 & 0 & -2 & 1 \\ 0 & 0 & 2 & 0 & -1 \\ -1 & 1 & -1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} C_{4,4} & C_{4,4} & C_{4,4} & C_{4,4} & 2C_{4,4} \\ -(2,1) & C_{4,4} & C_{4,4} & C_{4,4} & 2C_{4,4} \\ -(3,1) & -(3,2) & C_{4,4} & C_{4,4} & 2C_{4,4} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 2C_{4,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{4,4} \end{bmatrix}, \begin{bmatrix} V_4 \\ V_4 \\ V_4 \\ V_4 \\ 2V_4 \end{bmatrix}$$

$nr:=36$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & 0 & 0 & -1 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & 1 & 0 & -1 \\ -1 & 1 & -1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} C_{2,2} & C_{2,2} & 2C_{2,2} & 2C_{2,2} & 2C_{2,2} \\ -(2,1) & C_{2,2} & 2C_{2,2} & 2C_{2,2} & 2C_{2,2} \\ -(3,1) & -(3,2) & 4C_{2,2} & 4C_{2,2} & 4C_{2,2} \\ -(4,1) & -(4,2) & -(4,3) & 4C_{2,2} & 4C_{2,2} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{2,2} \end{bmatrix}, \begin{bmatrix} V_2 \\ V_2 \\ 2V_2 \\ 2V_2 \\ 2V_2 \end{bmatrix}$$

$nr:=37$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 1 \\ 2 & 0 & 0 & 0 & -1 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \\ -1 & 1 & 0 & 0 & 0 \end{bmatrix}, \begin{bmatrix} C_{2,2} & C_{2,2} & C_{2,3} & C_{2,4} & 2C_{2,2} \\ -(2,1) & C_{2,2} & C_{2,3} & C_{2,4} & 2C_{2,2} \\ -(3,1) & -(3,2) & C_{3,3} & C_{3,4} & 2C_{2,3} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 2C_{2,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{2,2} \end{bmatrix}, \begin{bmatrix} V_2 \\ V_2 \\ V_3 \\ V_4 \\ 2V_2 \end{bmatrix}$$

$nr:=38$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 2 \\ 2 & 0 & -2 & 0 & 0 \\ 0 & 2 & 0 & -2 & 0 \\ 0 & 0 & 2 & 0 & -2 \\ -2 & 0 & 0 & 2 & 0 \end{bmatrix}, \begin{bmatrix} C_{5,5} & C_{5,5} & C_{5,5} & C_{5,5} & C_{5,5} \\ -(2,1) & C_{5,5} & C_{5,5} & C_{5,5} & C_{5,5} \\ -(3,1) & -(3,2) & C_{5,5} & C_{5,5} & C_{5,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{5,5} & C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} V_5 \\ V_5 \\ V_5 \\ V_5 \\ V_5 \end{bmatrix}$$

$nr:=39$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 2 \\ 2 & 0 & -2 & 0 & 0 \\ 0 & 2 & 0 & -1 & -1 \\ 0 & 0 & 1 & 0 & -1 \\ -2 & 0 & 1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} C_{5,5} & C_{5,5} & C_{5,5} & C_{5,5} & C_{5,5} \\ -(2,1) & C_{5,5} & C_{5,5} & C_{5,5} & C_{5,5} \\ -(3,1) & -(3,2) & C_{5,5} & C_{5,5} & C_{5,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{5,5} & C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} V_5 \\ V_5 \\ V_5 \\ V_5 \\ V_5 \end{bmatrix}$$

nr:= 40

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 2 \\ 2 & 0 & -2 & 0 & 0 \\ 0 & 2 & 0 & 0 & -2 \\ 0 & 0 & 0 & 0 & 0 \\ -2 & 0 & 2 & 0 & 0 \end{bmatrix}, \begin{bmatrix} C_{3,3} & C_{3,5} & C_{3,3} & C_{3,4} & C_{3,5} \\ -(2,1) & C_{5,5} & C_{3,5} & C_{4,5} & C_{5,5} \\ -(3,1) & -(3,2) & C_{3,3} & C_{3,4} & C_{3,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & C_{4,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} V_3 \\ V_5 \\ V_3 \\ V_4 \\ V_5 \end{bmatrix}$$

nr:= 41

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 2 \\ 2 & 0 & -1 & -1 & -1 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & 1 & 0 & -1 \\ -2 & 1 & 1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} C_{1,1} & 2C_{1,1} & 0 & 0 & 2C_{1,1} \\ -(2,1) & 4C_{1,1} & 0 & 0 & 4C_{1,1} \\ -(3,1) & -(3,2) & 0 & 0 & 0 \\ -(4,1) & -(4,2) & -(4,3) & 0 & 0 \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{1,1} \end{bmatrix}, \begin{bmatrix} V_1 \\ 2V_1 \\ 0 \\ 0 \\ 2V_1 \end{bmatrix}$$

nr:= 42

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 2 \\ 2 & 0 & -1 & -1 & -1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 1 & 0 & -1 \\ -2 & 1 & 0 & 1 & 0 \end{bmatrix}, \begin{bmatrix} C_{5,5} & C_{5,5} & 0 & C_{5,5} & C_{5,5} \\ -(2,1) & C_{5,5} & 0 & C_{5,5} & C_{5,5} \\ -(3,1) & -(3,2) & 0 & 0 & 0 \\ -(4,1) & -(4,2) & -(4,3) & C_{5,5} & C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} V_5 \\ V_5 \\ 0 \\ V_5 \\ V_5 \end{bmatrix}$$

nr:= 43

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 2 \\ 2 & 0 & -1 & -1 & -1 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & 0 & -1 \\ -2 & 1 & 1 & 1 & 0 \end{bmatrix},$$

$$\begin{bmatrix} C_{1,1} & C_{1,5} & -C_{1,4} - C_{1,5} + 2C_{1,1} & C_{1,4} & C_{1,5} \\ -(2,1) & C_{5,5} & -C_{4,5} - C_{5,5} + 2C_{1,5} & C_{4,5} & C_{5,5} \\ -(3,1) & -(3,2) & C_{4,4} + 2C_{4,5} - 4C_{1,4} + C_{5,5} - 4C_{1,5} + 4C_{1,1} & -C_{4,4} - C_{4,5} + 2C_{1,4} & -C_{4,5} - C_{5,5} + 2C_{1,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & C_{4,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix},$$

$$\begin{bmatrix} V_1 \\ V_5 \\ -V_4 - V_5 + 2V_1 \\ V_4 \\ V_5 \end{bmatrix}$$

nr:= 44

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 2 \\ 2 & 0 & -1 & -1 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & 1 & 0 & -1 \\ -2 & 0 & 1 & 1 & 0 \end{bmatrix} \begin{bmatrix} 0 & 0 & 0 & 0 & 0 \\ -(2,1) & C_{5,5} & 0 & 0 & C_{5,5} \\ -(3,1) & -(3,2) & 0 & 0 & 0 \\ -(4,1) & -(4,2) & -(4,3) & 0 & 0 \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix} \begin{bmatrix} 0 \\ V_5 \\ 0 \\ 0 \\ V_5 \end{bmatrix}$$

$nr := 45$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 2 \\ 2 & 0 & -1 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & 0 & -1 \\ -2 & 0 & 1 & 1 & 0 \end{bmatrix} \begin{bmatrix} C_{1,1} & C_{1,5} & -C_{1,4} + 2C_{1,1} & C_{1,4} & C_{1,5} \\ -(2,1) & C_{5,5} & -C_{4,5} + 2C_{1,5} & C_{4,5} & C_{5,5} \\ -(3,1) & -(3,2) & C_{4,4} - 4C_{1,4} + 4C_{1,1} & -C_{4,4} + 2C_{1,4} & -C_{4,5} + 2C_{1,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & C_{4,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix} \begin{bmatrix} V_1 \\ V_5 \\ -V_4 + 2V_1 \\ V_4 \\ V_5 \end{bmatrix}$$

$nr := 46$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 2 \\ 2 & 0 & -1 & 0 & -1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & 0 & -1 \\ -2 & 1 & 0 & 1 & 0 \end{bmatrix} \begin{bmatrix} C_{5,5} & C_{5,5} & C_{5,5} & C_{5,5} & C_{5,5} \\ -(2,1) & C_{5,5} & C_{5,5} & C_{5,5} & C_{5,5} \\ -(3,1) & -(3,2) & C_{5,5} & C_{5,5} & C_{5,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{5,5} & C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix} \begin{bmatrix} V_5 \\ V_5 \\ V_5 \\ V_5 \\ V_5 \end{bmatrix}$$

$nr := 47$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 2 \\ 2 & 0 & -1 & 0 & -1 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 0 & 0 \\ -2 & 1 & 1 & 0 & 0 \end{bmatrix} \begin{bmatrix} C_{1,1} & C_{1,5} & -C_{1,5} + 2C_{1,1} & C_{1,4} & C_{1,5} \\ -(2,1) & C_{5,5} & -C_{5,5} + 2C_{1,5} & C_{4,5} & C_{5,5} \\ -(3,1) & -(3,2) & C_{5,5} - 4C_{1,5} + 4C_{1,1} & -C_{4,5} + 2C_{1,4} & -C_{5,5} + 2C_{1,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & C_{4,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix} \begin{bmatrix} V_1 \\ V_5 \\ -V_5 + 2V_1 \\ V_4 \\ V_5 \end{bmatrix}$$

$nr := 48$

$$\begin{bmatrix} 0 & -2 & 0 & 0 & 2 \\ 2 & 0 & 0 & 0 & -2 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \\ -2 & 2 & 0 & 0 & 0 \end{bmatrix} \begin{bmatrix} C_{5,5} & C_{5,5} & C_{3,5} & C_{4,5} & C_{5,5} \\ -(2,1) & C_{5,5} & C_{3,5} & C_{4,5} & C_{5,5} \\ -(3,1) & -(3,2) & C_{3,3} & C_{3,4} & C_{3,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & C_{4,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix} \begin{bmatrix} V_5 \\ V_5 \\ V_3 \\ V_4 \\ V_5 \end{bmatrix}$$

$nr := 49$

$$\begin{bmatrix} 0 & -2 & 0 & 1 & 1 \\ 2 & 0 & -1 & -1 & -1 \\ 0 & 1 & 0 & -1 & -1 \\ -1 & 1 & 1 & 0 & -1 \\ -1 & 1 & 1 & 1 & 0 \end{bmatrix} \begin{bmatrix} C_{5,5} & 0 & 2C_{5,5} & -C_{5,5} & C_{5,5} \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & 4C_{5,5} & -2C_{5,5} & 2C_{5,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{5,5} & -C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix} \begin{bmatrix} V_5 \\ 0 \\ 2V_5 \\ -V_5 \\ V_5 \end{bmatrix}$$

$nr := 50$

$$\begin{bmatrix} 0 & -2 & 0 & 1 & 1 \\ 2 & 0 & -1 & -1 & -1 \\ 0 & 1 & 0 & -1 & -1 \\ -1 & 1 & 1 & 0 & 0 \\ -1 & 1 & 1 & 0 & 0 \end{bmatrix} \begin{bmatrix} 0 & 0 & 0 & 0 & 0 \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & 0 & 0 & 0 \\ -(4,1) & -(4,2) & -(4,3) & C_{5,5} & -C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix} \begin{bmatrix} 0 \\ 0 \\ 0 \\ -V_5 \\ V_5 \end{bmatrix}$$

$nr := 51$







$nr := 65$

$$\begin{bmatrix} 0 & -2 & 0 & 1 & 1 \\ 2 & 0 & -1 & -1 & 0 \\ 0 & 1 & 0 & 1 & -1 \\ -1 & 1 & -1 & 0 & 1 \\ -1 & 0 & 1 & -1 & 0 \end{bmatrix}, \begin{bmatrix} 2C_{2,4} & 2C_{2,4} & 3C_{2,4} & C_{2,4} & 3C_{2,4} \\ -(2,1) & 2C_{2,4} & 3C_{2,4} & C_{2,4} & 3C_{2,4} \\ -(3,1) & -(3,2) & \frac{9}{2}C_{2,4} & \frac{3}{2}C_{2,4} & \frac{9}{2}C_{2,4} \\ -(4,1) & -(4,2) & -(4,3) & \frac{1}{2}C_{2,4} & \frac{3}{2}C_{2,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & \frac{9}{2}C_{2,4} \end{bmatrix}, \begin{bmatrix} 2V_4 \\ 2V_4 \\ 3V_4 \\ V_4 \\ 3V_4 \end{bmatrix}$$

$nr := 66$

$$\begin{bmatrix} 0 & -2 & 0 & 1 & 1 \\ 2 & 0 & 0 & -1 & -1 \\ 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & 1 & 0 & -1 \\ -1 & 1 & -1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} C_{5,5} & C_{5,5} & C_{5,5} & C_{5,5} & C_{5,5} \\ -(2,1) & C_{5,5} & C_{5,5} & C_{5,5} & C_{5,5} \\ -(3,1) & -(3,2) & C_{5,5} & C_{5,5} & C_{5,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{5,5} & C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} V_5 \\ V_5 \\ V_5 \\ V_5 \\ V_5 \end{bmatrix}$$

$nr := 67$

$$\begin{bmatrix} 0 & -2 & 0 & 1 & 1 \\ 2 & 0 & 0 & -1 & -1 \\ 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & 1 & 0 & 0 \\ -1 & 1 & -1 & 0 & 0 \end{bmatrix}, \begin{bmatrix} C_{5,5} & C_{5,5} & 0 & C_{5,5} & C_{5,5} \\ -(2,1) & C_{5,5} & 0 & C_{5,5} & C_{5,5} \\ -(3,1) & -(3,2) & 0 & 0 & 0 \\ -(4,1) & -(4,2) & -(4,3) & C_{5,5} & C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} V_5 \\ V_5 \\ 0 \\ V_5 \\ V_5 \end{bmatrix}$$

$nr := 68$

$$\begin{bmatrix} 0 & -2 & 0 & 1 & 1 \\ 2 & 0 & 0 & -1 & -1 \\ 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & 1 & 0 & 1 \\ -1 & 1 & -1 & -1 & 0 \end{bmatrix}, \begin{bmatrix} C_{5,5} & C_{5,5} & -C_{5,5} & C_{5,5} & C_{5,5} \\ -(2,1) & C_{5,5} & -C_{5,5} & C_{5,5} & C_{5,5} \\ -(3,1) & -(3,2) & C_{5,5} & -C_{5,5} & -C_{5,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{5,5} & C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} V_5 \\ V_5 \\ -V_5 \\ V_5 \\ V_5 \end{bmatrix}$$

$nr := 69$

$$\begin{bmatrix} 0 & -2 & 0 & 1 & 1 \\ 2 & 0 & 0 & -1 & -1 \\ 0 & 0 & 0 & 0 & 0 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 1 & 0 \end{bmatrix}, \begin{bmatrix} 0 & 0 & 0 & 0 & 0 \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & C_{3,3} & 0 & 0 \\ -(4,1) & -(4,2) & -(4,3) & 0 & 0 \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 0 \end{bmatrix}, \begin{bmatrix} 0 \\ 0 \\ V_3 \\ 0 \\ 0 \end{bmatrix}$$

$nr := 70$

$$\begin{bmatrix} 0 & -2 & 0 & 1 & 1 \\ 2 & 0 & 0 & -1 & -1 \\ 0 & 0 & 0 & 0 & 0 \\ -1 & 1 & 0 & 0 & 0 \\ -1 & 1 & 0 & 0 & 0 \end{bmatrix}, \begin{bmatrix} C_{2,2} & C_{2,2} & C_{2,3} & -C_{2,5} + 2C_{2,2} & C_{2,5} \\ -(2,1) & C_{2,2} & C_{2,3} & -C_{2,5} + 2C_{2,2} & C_{2,5} \\ -(3,1) & -(3,2) & C_{3,3} & -C_{3,5} + 2C_{2,3} & C_{3,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{5,5} - 4C_{2,5} + 4C_{2,2} & -C_{5,5} + 2C_{2,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} V_2 \\ V_2 \\ V_3 \\ -V_5 + 2V_2 \\ V_5 \end{bmatrix}$$

$nr := 71$

$$\begin{bmatrix} 0 & -2 & 1 & 1 & 1 \\ 2 & 0 & -1 & -1 & -1 \\ -1 & 1 & 0 & -1 & -1 \\ -1 & 1 & 1 & 0 & -1 \\ -1 & 1 & 1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} C_{2,2} & C_{2,2} & 2C_{2,2} & -2C_{2,2} & 2C_{2,2} \\ -(2,1) & C_{2,2} & 2C_{2,2} & -2C_{2,2} & 2C_{2,2} \\ -(3,1) & -(3,2) & 4C_{2,2} & -4C_{2,2} & 4C_{2,2} \\ -(4,1) & -(4,2) & -(4,3) & 4C_{2,2} & -4C_{2,2} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{2,2} \end{bmatrix}, \begin{bmatrix} V_2 \\ V_2 \\ 2V_2 \\ -2V_2 \\ 2V_2 \end{bmatrix}$$

nr:= 72

$$\begin{bmatrix} 0 & -2 & 1 & 1 & 1 \\ 2 & 0 & -1 & -1 & -1 \\ -1 & 1 & 0 & -1 & -1 \\ -1 & 1 & 1 & 0 & 0 \\ -1 & 1 & 1 & 0 & 0 \end{bmatrix}, \begin{bmatrix} 0 & 0 & 0 & 0 & 0 \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & 0 & 0 & 0 \\ -(4,1) & -(4,2) & -(4,3) & C_{5,5} & -C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} 0 \\ 0 \\ 0 \\ -V_5 \\ V_5 \end{bmatrix}$$

nr:= 73

$$\begin{bmatrix} 0 & -2 & 1 & 1 & 1 \\ 2 & 0 & -1 & -1 & -1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 1 & 0 & -1 \\ -1 & 1 & 0 & 1 & 0 \end{bmatrix}, \begin{bmatrix} C_{5,5} & C_{5,5} & C_{5,5} & 0 & C_{5,5} \\ -(2,1) & C_{5,5} & C_{5,5} & 0 & C_{5,5} \\ -(3,1) & -(3,2) & C_{5,5} & 0 & C_{5,5} \\ -(4,1) & -(4,2) & -(4,3) & 0 & 0 \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} V_5 \\ V_5 \\ V_5 \\ 0 \\ V_5 \end{bmatrix}$$

nr:= 74

$$\begin{bmatrix} 0 & -2 & 1 & 1 & 1 \\ 2 & 0 & -1 & -1 & -1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 1 & 0 & 0 \\ -1 & 1 & 0 & 0 & 0 \end{bmatrix}, \begin{bmatrix} C_{2,2} & C_{2,2} & 0 & 0 & 2C_{2,2} \\ -(2,1) & C_{2,2} & 0 & 0 & 2C_{2,2} \\ -(3,1) & -(3,2) & 0 & 0 & 0 \\ -(4,1) & -(4,2) & -(4,3) & 0 & 0 \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{2,2} \end{bmatrix}, \begin{bmatrix} V_2 \\ V_2 \\ 0 \\ 0 \\ 2V_2 \end{bmatrix}$$

nr:= 75

$$\begin{bmatrix} 0 & -2 & 1 & 1 & 1 \\ 2 & 0 & -1 & -1 & -1 \\ -1 & 1 & 0 & -1 & 1 \\ -1 & 1 & 1 & 0 & -1 \\ -1 & 1 & -1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} \frac{9}{4}C_{5,5} & \frac{9}{4}C_{5,5} & \frac{3}{2}C_{5,5} & \frac{3}{2}C_{5,5} & \frac{3}{2}C_{5,5} \\ -(2,1) & \frac{9}{4}C_{5,5} & \frac{3}{2}C_{5,5} & \frac{3}{2}C_{5,5} & \frac{3}{2}C_{5,5} \\ -(3,1) & -(3,2) & C_{5,5} & C_{5,5} & C_{5,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{5,5} & C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} \frac{3}{2}V_5 \\ \frac{3}{2}V_5 \\ V_5 \\ V_5 \\ V_5 \end{bmatrix}$$

nr:= 76

$$\begin{bmatrix} 0 & -2 & 1 & 1 & 1 \\ 2 & 0 & -1 & -1 & -1 \\ -1 & 1 & 0 & 0 & 0 \\ -1 & 1 & 0 & 0 & 0 \\ -1 & 1 & 0 & 0 & 0 \end{bmatrix},$$

$$\begin{bmatrix} C_{2,2} & C_{2,2} & -C_{2,5} - C_{2,4} + 2C_{2,2} & C_{2,4} & C_{2,5} \\ -(2,1) & C_{2,2} & -C_{2,5} - C_{2,4} + 2C_{2,2} & C_{2,4} & C_{2,5} \\ -(3,1) & -(3,2) & C_{5,5} + 2C_{4,5} - 4C_{2,5} + C_{4,4} - 4C_{2,4} + 4C_{2,2} & -C_{4,5} - C_{4,4} + 2C_{2,4} & -C_{5,5} - C_{4,5} + 2C_{2,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & C_{4,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix},$$

$$\begin{bmatrix} V_2 \\ V_2 \\ -V_5 - V_4 + 2V_2 \\ V_4 \\ V_5 \end{bmatrix}$$

$nr := 77$

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & -1 & -1 \\ 1 & 1 & 0 & -1 & -1 \\ 1 & 1 & 1 & 0 & -1 \\ -1 & 1 & 1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} C_{5,5} & C_{5,5} & -C_{5,5} & C_{5,5} & C_{5,5} \\ -(2,1) & C_{5,5} & -C_{5,5} & C_{5,5} & C_{5,5} \\ -(3,1) & -(3,2) & C_{5,5} & -C_{5,5} & -C_{5,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{5,5} & C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} V_5 \\ V_5 \\ -V_5 \\ V_5 \\ V_5 \end{bmatrix}$$

$nr := 78$

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & -1 & -1 \\ 1 & 1 & 0 & -1 & 0 \\ 1 & 1 & 1 & 0 & -1 \\ -1 & 1 & 0 & 1 & 0 \end{bmatrix}, \begin{bmatrix} 4C_{5,5} & 0 & -2C_{5,5} & 4C_{5,5} & 2C_{5,5} \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & C_{5,5} & -2C_{5,5} & -C_{5,5} \\ -(4,1) & -(4,2) & -(4,3) & 4C_{5,5} & 2C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} 2V_5 \\ 0 \\ -V_5 \\ 2V_5 \\ V_5 \end{bmatrix}$$

$nr := 79$

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & -1 & -1 \\ 1 & 1 & 0 & -1 & 1 \\ 1 & 1 & 1 & 0 & -1 \\ -1 & 1 & -1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} 9C_{5,5} & -3C_{5,5} & -3C_{5,5} & 9C_{5,5} & 3C_{5,5} \\ -(2,1) & C_{5,5} & C_{5,5} & -3C_{5,5} & -C_{5,5} \\ -(3,1) & -(3,2) & C_{5,5} & -3C_{5,5} & -C_{5,5} \\ -(4,1) & -(4,2) & -(4,3) & 9C_{5,5} & 3C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} 3V_5 \\ -V_5 \\ -V_5 \\ 3V_5 \\ V_5 \end{bmatrix}$$

$nr := 80$

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & -1 & -1 \\ 1 & 1 & 0 & 0 & -1 \\ 1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} 0 & 0 & 0 & 0 & 0 \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & C_{4,4} & -C_{4,4} & 0 \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 0 \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 0 \end{bmatrix}, \begin{bmatrix} 0 \\ 0 \\ -V_4 \\ V_4 \\ 0 \end{bmatrix}$$

$nr := 81$

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & -1 & 0 \\ 1 & 1 & 0 & -1 & -1 \\ 1 & 1 & 1 & 0 & -1 \\ -1 & 0 & 1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} 0 & 0 & 0 & 0 & 0 \\ -(2,1) & C_{5,5} & 0 & 0 & C_{5,5} \\ -(3,1) & -(3,2) & 0 & 0 & 0 \\ -(4,1) & -(4,2) & -(4,3) & 0 & 0 \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} 0 \\ V_5 \\ 0 \\ 0 \\ V_5 \end{bmatrix}$$

$nr := 82$

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & -1 & 0 \\ 1 & 1 & 0 & -1 & 0 \\ 1 & 1 & 1 & 0 & -1 \\ -1 & 0 & 0 & 1 & 0 \end{bmatrix}, \begin{bmatrix} C_{5,5} & 0 & 0 & C_{5,5} & C_{5,5} \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & 0 & 0 & 0 \\ -(4,1) & -(4,2) & -(4,3) & C_{5,5} & C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} V_5 \\ 0 \\ 0 \\ V_5 \\ V_5 \end{bmatrix}$$

$nr := 83$

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & -1 & 0 \\ 1 & 1 & 0 & 0 & -1 \\ 1 & 1 & 0 & 0 & -1 \\ -1 & 0 & 1 & 1 & 0 \end{bmatrix},$$

$$\begin{bmatrix} C_{4,4} + 2C_{3,4} + C_{3,3} & C_{4,5} - C_{4,4} - 2C_{3,4} + C_{3,5} - C_{3,3} & C_{3,4} + C_{3,3} & C_{4,4} + C_{3,4} & C_{4,5} + C_{3,5} \\ -(2,1) & C_{5,5} - 2C_{4,5} - 2C_{3,5} + C_{4,4} + 2C_{3,4} + C_{3,3} & C_{3,5} - C_{3,4} - C_{3,3} & C_{4,5} - C_{4,4} - C_{3,4} & C_{5,5} - C_{4,5} - C_{3,5} \\ -(3,1) & -(3,2) & C_{3,3} & C_{3,4} & C_{3,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & C_{4,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix},$$

$$\begin{bmatrix} V_4 + V_3 \\ V_5 - V_4 - V_3 \\ V_3 \\ V_4 \\ V_5 \end{bmatrix}$$

$nr := 84$

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & -1 & 1 \\ 1 & 1 & 0 & -1 & -1 \\ 1 & 1 & 1 & 0 & -1 \\ -1 & -1 & 1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} C_{5,5} & -C_{5,5} & -C_{5,5} & C_{5,5} & -C_{5,5} \\ -(2,1) & C_{5,5} & C_{5,5} & -C_{5,5} & C_{5,5} \\ -(3,1) & -(3,2) & C_{5,5} & -C_{5,5} & C_{5,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{5,5} & -C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} -V_5 \\ V_5 \\ V_5 \\ -V_5 \\ V_5 \end{bmatrix}$$

$nr := 85$

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & -1 & 1 \\ 1 & 1 & 0 & 0 & -1 \\ 1 & 1 & 0 & 0 & -1 \\ -1 & -1 & 1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} 0 & 0 & 0 & 0 & 0 \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & C_{4,4} & -C_{4,4} & 0 \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 0 \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 0 \end{bmatrix}, \begin{bmatrix} 0 \\ 0 \\ -V_4 \\ V_4 \\ 0 \end{bmatrix}$$

$nr := 86$

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & 0 & -1 \\ 1 & 1 & 0 & -1 & -1 \\ 1 & 0 & 1 & 0 & -1 \\ -1 & 1 & 1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} 4C_{4,4} & 2C_{4,4} & 0 & 2C_{4,4} & 4C_{4,4} \\ -(2,1) & C_{4,4} & 0 & C_{4,4} & 2C_{4,4} \\ -(3,1) & -(3,2) & 0 & 0 & 0 \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 2C_{4,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{4,4} \end{bmatrix}, \begin{bmatrix} 2V_4 \\ V_4 \\ 0 \\ V_4 \\ 2V_4 \end{bmatrix}$$

$nr := 87$

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & 0 & -1 \\ 1 & 1 & 0 & -1 & 0 \\ 1 & 0 & 1 & 0 & -1 \\ -1 & 1 & 0 & 1 & 0 \end{bmatrix}, \begin{bmatrix} C_{5,5} & 0 & 0 & C_{5,5} & C_{5,5} \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & 0 & 0 & 0 \\ -(4,1) & -(4,2) & -(4,3) & C_{5,5} & C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} V_5 \\ 0 \\ 0 \\ V_5 \\ V_5 \end{bmatrix}$$

$nr := 88$

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & 0 & -1 \\ 1 & 1 & 0 & -1 & 1 \\ 1 & 0 & 1 & 0 & -1 \\ -1 & 1 & -1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} -2C_{2,5} & C_{2,5} & 0 & -3C_{2,5} & -2C_{2,5} \\ -(2,1) & -\frac{1}{2}C_{2,5} & 0 & \frac{3}{2}C_{2,5} & C_{2,5} \\ -(3,1) & -(3,2) & 0 & 0 & 0 \\ -(4,1) & -(4,2) & -(4,3) & -\frac{9}{2}C_{2,5} & -3C_{2,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & -2C_{2,5} \end{bmatrix}, \begin{bmatrix} V_5 \\ -\frac{1}{2}V_5 \\ 0 \\ \frac{3}{2}V_5 \\ V_5 \end{bmatrix}$$

nr:= 89

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & 0 & -1 \\ 1 & 1 & 0 & 0 & -1 \\ 1 & 0 & 0 & 0 & -1 \\ -1 & 1 & 1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} C_{5,5} & 0 & 0 & C_{5,5} & C_{5,5} \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & 0 & 0 & 0 \\ -(4,1) & -(4,2) & -(4,3) & C_{5,5} & C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} V_5 \\ 0 \\ 0 \\ V_5 \\ V_5 \end{bmatrix}$$

nr:= 90

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & 0 & -1 \\ 1 & 1 & 0 & 1 & -1 \\ 1 & 0 & -1 & 0 & 0 \\ -1 & 1 & 1 & 0 & 0 \end{bmatrix}, \begin{bmatrix} C_{4,4} & 0 & C_{4,4} & -C_{4,4} & 0 \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & C_{4,4} & -C_{4,4} & 0 \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 0 \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 0 \end{bmatrix}, \begin{bmatrix} -V_4 \\ 0 \\ -V_4 \\ V_4 \\ 0 \end{bmatrix}$$

nr:= 91

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & 0 & -1 \\ 1 & 1 & 0 & 1 & -1 \\ 1 & 0 & -1 & 0 & 1 \\ -1 & 1 & 1 & -1 & 0 \end{bmatrix}, \begin{bmatrix} 4C_{4,4} & -2C_{4,4} & 4C_{4,4} & -2C_{4,4} & 0 \\ -(2,1) & C_{4,4} & -2C_{4,4} & C_{4,4} & 0 \\ -(3,1) & -(3,2) & 4C_{4,4} & -2C_{4,4} & 0 \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 0 \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 0 \end{bmatrix}, \begin{bmatrix} -2V_4 \\ V_4 \\ -2V_4 \\ V_4 \\ 0 \end{bmatrix}$$

nr:= 92

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & 0 & 0 \\ 1 & 1 & 0 & -1 & -1 \\ 1 & 0 & 1 & 0 & -1 \\ -1 & 0 & 1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} C_{3,3} & C_{3,3} & C_{3,3} & 0 & 2C_{3,3} \\ -(2,1) & C_{3,3} & C_{3,3} & 0 & 2C_{3,3} \\ -(3,1) & -(3,2) & C_{3,3} & 0 & 2C_{3,3} \\ -(4,1) & -(4,2) & -(4,3) & 0 & 0 \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{3,3} \end{bmatrix}, \begin{bmatrix} V_3 \\ V_3 \\ V_3 \\ 0 \\ 2V_3 \end{bmatrix}$$

nr:= 93

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & 0 & 0 \\ 1 & 1 & 0 & -1 & 0 \\ 1 & 0 & 1 & 0 & -1 \\ -1 & 0 & 0 & 1 & 0 \end{bmatrix}, \begin{bmatrix} C_{4,4} & 0 & C_{4,4} & C_{4,4} & 2C_{4,4} \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & C_{4,4} & C_{4,4} & 2C_{4,4} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 2C_{4,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{4,4} \end{bmatrix}, \begin{bmatrix} V_4 \\ 0 \\ V_4 \\ V_4 \\ 2V_4 \end{bmatrix}$$

nr:= 94

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & 0 & 0 \\ 1 & 1 & 0 & -1 & 1 \\ 1 & 0 & 1 & 0 & -1 \\ -1 & 0 & -1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} C_{3,3} & -C_{3,3} & C_{3,3} & 2C_{3,3} & 2C_{3,3} \\ -(2,1) & C_{3,3} & -C_{3,3} & -2C_{3,3} & -2C_{3,3} \\ -(3,1) & -(3,2) & C_{3,3} & 2C_{3,3} & 2C_{3,3} \\ -(4,1) & -(4,2) & -(4,3) & 4C_{3,3} & 4C_{3,3} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{3,3} \end{bmatrix}, \begin{bmatrix} V_3 \\ -V_3 \\ V_3 \\ 2V_3 \\ 2V_3 \end{bmatrix}$$

nr:= 95

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & 0 & 0 \\ 1 & 1 & 0 & 0 & -1 \\ 1 & 0 & 0 & 0 & -1 \\ -1 & 0 & 1 & 1 & 0 \end{bmatrix} \begin{bmatrix} C_{5,5} & 0 & C_{5,5} & 0 & C_{5,5} \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & C_{5,5} & 0 & C_{5,5} \\ -(4,1) & -(4,2) & -(4,3) & 0 & 0 \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix} \begin{bmatrix} V_5 \\ 0 \\ V_5 \\ 0 \\ V_5 \end{bmatrix}$$

nr:=96

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & 0 & 0 \\ 1 & 1 & 0 & 1 & -1 \\ 1 & 0 & -1 & 0 & 0 \\ -1 & 0 & 1 & 0 & 0 \end{bmatrix},$$

$$\begin{bmatrix} C_{3,3} & C_{3,5} - C_{3,4} - C_{3,3} & C_{3,3} & C_{3,4} & C_{3,5} \\ -(2,1) & C_{5,5} - 2C_{4,5} - 2C_{3,5} + C_{4,4} + 2C_{3,4} + C_{3,3} & C_{3,5} - C_{3,4} - C_{3,3} & C_{4,5} - C_{4,4} - C_{3,4} & C_{5,5} - C_{4,5} - C_{3,5} \\ -(3,1) & -(3,2) & C_{3,3} & C_{3,4} & C_{3,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & C_{4,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix},$$

$$\begin{bmatrix} V_3 \\ V_5 - V_4 - V_3 \\ V_3 \\ V_4 \\ V_5 \end{bmatrix}$$

nr:=97

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & 0 & 1 \\ 1 & 1 & 0 & -1 & -1 \\ 1 & 0 & 1 & 0 & -1 \\ -1 & -1 & 1 & 1 & 0 \end{bmatrix} \begin{bmatrix} 0 & 0 & 0 & 0 & 0 \\ -(2,1) & C_{4,4} & 2C_{4,4} & -C_{4,4} & 2C_{4,4} \\ -(3,1) & -(3,2) & 4C_{4,4} & -2C_{4,4} & 4C_{4,4} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & -2C_{4,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{4,4} \end{bmatrix} \begin{bmatrix} 0 \\ -V_4 \\ -2V_4 \\ V_4 \\ -2V_4 \end{bmatrix}$$

nr:=98

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & 0 & 1 \\ 1 & 1 & 0 & -1 & 0 \\ 1 & 0 & 1 & 0 & -1 \\ -1 & -1 & 0 & 1 & 0 \end{bmatrix} \begin{bmatrix} 0 & 0 & 0 & 0 & 0 \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & C_{5,5} & 0 & C_{5,5} \\ -(4,1) & -(4,2) & -(4,3) & 0 & 0 \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix} \begin{bmatrix} 0 \\ 0 \\ V_5 \\ 0 \\ V_5 \end{bmatrix}$$

nr:=99

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & 0 & 1 \\ 1 & 1 & 0 & 0 & -1 \\ 1 & 0 & 0 & 0 & -1 \\ -1 & -1 & 1 & 1 & 0 \end{bmatrix} \begin{bmatrix} C_{5,5} & 0 & 2C_{5,5} & -C_{5,5} & C_{5,5} \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & 4C_{5,5} & -2C_{5,5} & 2C_{5,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{5,5} & -C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix} \begin{bmatrix} V_5 \\ 0 \\ 2V_5 \\ -V_5 \\ V_5 \end{bmatrix}$$

nr:=100



$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & 1 & -1 \\ 1 & 1 & 0 & -1 & -1 \\ 1 & -1 & 1 & 0 & -1 \\ -1 & 1 & 1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} 9C_{4,4} & 3C_{4,4} & 3C_{4,4} & 3C_{4,4} & 9C_{4,4} \\ -(2,1) & C_{4,4} & C_{4,4} & C_{4,4} & 3C_{4,4} \\ -(3,1) & -(3,2) & C_{4,4} & C_{4,4} & 3C_{4,4} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 3C_{4,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 9C_{4,4} \end{bmatrix}, \begin{bmatrix} 3V_4 \\ V_4 \\ V_4 \\ V_4 \\ 3V_4 \end{bmatrix}$$

nr:= 101

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & 1 & -1 \\ 1 & 1 & 0 & -1 & -1 \\ 1 & -1 & 1 & 0 & 0 \\ -1 & 1 & 1 & 0 & 0 \end{bmatrix}, \begin{bmatrix} 4C_{4,4} & 4C_{4,4} & 0 & 2C_{4,4} & 6C_{4,4} \\ -(2,1) & 4C_{4,4} & 0 & 2C_{4,4} & 6C_{4,4} \\ -(3,1) & -(3,2) & 0 & 0 & 0 \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 3C_{4,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 9C_{4,4} \end{bmatrix}, \begin{bmatrix} V_2 \\ V_2 \\ 0 \\ \frac{1}{2}V_2 \\ \frac{3}{2}V_2 \end{bmatrix}$$

nr:= 102

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & 1 & -1 \\ 1 & 1 & 0 & -1 & -1 \\ 1 & -1 & 1 & 0 & 1 \\ -1 & 1 & 1 & -1 & 0 \end{bmatrix}, \begin{bmatrix} C_{4,4} & 3C_{4,4} & -C_{4,4} & C_{4,4} & 3C_{4,4} \\ -(2,1) & 9C_{4,4} & -3C_{4,4} & 3C_{4,4} & 9C_{4,4} \\ -(3,1) & -(3,2) & C_{4,4} & -C_{4,4} & -3C_{4,4} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 3C_{4,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 9C_{4,4} \end{bmatrix}, \begin{bmatrix} V_4 \\ 3V_4 \\ -V_4 \\ V_4 \\ 3V_4 \end{bmatrix}$$

nr:= 103

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & 1 & -1 \\ 1 & 1 & 0 & -1 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ -1 & 1 & 0 & 0 & 0 \end{bmatrix}, \begin{bmatrix} C_{2,2} & C_{2,2} & 0 & 2C_{2,2} & 3C_{2,2} \\ -(2,1) & C_{2,2} & 0 & 2C_{2,2} & 3C_{2,2} \\ -(3,1) & -(3,2) & 0 & 0 & 0 \\ -(4,1) & -(4,2) & -(4,3) & 4C_{2,2} & 6C_{2,2} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 9C_{2,2} \end{bmatrix}, \begin{bmatrix} V_2 \\ V_2 \\ 0 \\ 2V_2 \\ 3V_2 \end{bmatrix}$$

nr:= 104

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & -1 & 1 & -1 \\ 1 & 1 & 0 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ -1 & 1 & -1 & 0 & 0 \end{bmatrix}, \begin{bmatrix} 0 & 0 & 0 & 0 & 0 \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & 0 & 0 & 0 \\ -(4,1) & -(4,2) & -(4,3) & C_{5,5} & C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} 0 \\ 0 \\ 0 \\ V_5 \\ V_5 \end{bmatrix}$$

nr:= 105

$$\begin{bmatrix} 0 & -1 & -1 & -1 & 1 \\ 1 & 0 & 0 & 0 & -1 \\ 1 & 0 & 0 & 0 & -1 \\ 1 & 0 & 0 & 0 & -1 \\ -1 & 1 & 1 & 1 & 0 \end{bmatrix},$$

$$\begin{bmatrix} C_{5,5} & C_{5,5} - C_{4,5} - C_{3,5} & C_{3,5} & C_{4,5} & C_{5,5} \\ -(2,1) & C_{5,5} - 2C_{4,5} - 2C_{3,5} + C_{4,4} + 2C_{3,4} + C_{3,3} & C_{3,5} - C_{3,4} - C_{3,3} & C_{4,5} - C_{4,4} - C_{3,4} & C_{5,5} - C_{4,5} - C_{3,5} \\ -(3,1) & -(3,2) & C_{3,3} & C_{3,4} & C_{3,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & C_{4,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix},$$

$$\begin{bmatrix} V_5 \\ V_5 - V_4 - V_3 \\ V_3 \\ V_4 \\ V_5 \end{bmatrix}$$

$$nr := 106$$

$$\begin{bmatrix} 0 & -1 & -1 & 0 & 1 \\ 1 & 0 & -1 & -1 & 0 \\ 1 & 1 & 0 & -1 & -1 \\ 0 & 1 & 1 & 0 & -1 \\ -1 & 0 & 1 & 1 & 0 \end{bmatrix} \begin{bmatrix} C_{4,4} + 2C_{3,4} + C_{3,3} & C_{4,5} + C_{3,5} - C_{3,4} - C_{3,3} & C_{3,4} + C_{3,3} & C_{4,4} + C_{3,4} & C_{4,5} + C_{3,5} \\ -(2,1) & C_{5,5} - 2C_{3,5} + C_{3,3} & C_{3,5} - C_{3,3} & C_{4,5} - C_{3,4} & C_{5,5} - C_{3,5} \\ -(3,1) & -(3,2) & C_{3,3} & C_{3,4} & C_{3,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & C_{4,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix} \begin{bmatrix} V_4 + V_3 \\ V_5 - V_3 \\ V_3 \\ V_4 \\ V_5 \end{bmatrix}$$

$$nr := 107$$

$$\begin{bmatrix} 0 & -1 & -1 & 0 & 1 \\ 1 & 0 & -1 & -1 & 0 \\ 1 & 1 & 0 & -1 & 0 \\ 0 & 1 & 1 & 0 & -1 \\ -1 & 0 & 0 & 1 & 0 \end{bmatrix} \begin{bmatrix} C_{4,4} & 0 & 0 & C_{4,4} & 0 \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & 0 & 0 & 0 \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 0 \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 0 \end{bmatrix} \begin{bmatrix} V_4 \\ 0 \\ 0 \\ V_4 \\ 0 \end{bmatrix}$$

$$nr := 108$$

$$\begin{bmatrix} 0 & -1 & -1 & 0 & 1 \\ 1 & 0 & -1 & -1 & 0 \\ 1 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & 0 & -1 \\ -1 & 0 & 1 & 1 & 0 \end{bmatrix} \begin{bmatrix} 0 & 0 & 0 & 0 & 0 \\ -(2,1) & C_{5,5} & 0 & 0 & C_{5,5} \\ -(3,1) & -(3,2) & 0 & 0 & 0 \\ -(4,1) & -(4,2) & -(4,3) & 0 & 0 \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix} \begin{bmatrix} 0 \\ V_5 \\ 0 \\ 0 \\ V_5 \end{bmatrix}$$

$$nr := 109$$

$$\begin{bmatrix} 0 & -1 & -1 & 0 & 1 \\ 1 & 0 & -1 & -1 & 1 \\ 1 & 1 & 0 & -1 & -1 \\ 0 & 1 & 1 & 0 & -1 \\ -1 & -1 & 1 & 1 & 0 \end{bmatrix} \begin{bmatrix} C_{4,4} & 0 & 0 & C_{4,4} & 0 \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & 0 & 0 & 0 \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 0 \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 0 \end{bmatrix} \begin{bmatrix} V_4 \\ 0 \\ 0 \\ V_4 \\ 0 \end{bmatrix}$$

$$nr := 110$$

$$\begin{bmatrix} 0 & -1 & -1 & 0 & 1 \\ 1 & 0 & -1 & -1 & 1 \\ 1 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & 0 & -1 \\ -1 & -1 & 1 & 1 & 0 \end{bmatrix} \begin{bmatrix} 0 & 0 & 0 & 0 & 0 \\ -(2,1) & C_{5,5} & 0 & C_{5,5} & C_{5,5} \\ -(3,1) & -(3,2) & 0 & 0 & 0 \\ -(4,1) & -(4,2) & -(4,3) & C_{5,5} & C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix} \begin{bmatrix} 0 \\ V_5 \\ 0 \\ V_5 \\ V_5 \end{bmatrix}$$

$$nr := 111$$

$$\begin{bmatrix} 0 & -1 & -1 & 0 & 1 \\ 1 & 0 & -1 & 0 & -1 \\ 1 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & 0 & -1 \\ -1 & 1 & 0 & 1 & 0 \end{bmatrix} \begin{bmatrix} 4C_{5,5} & 0 & 2C_{5,5} & 4C_{5,5} & 2C_{5,5} \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & C_{5,5} & 2C_{5,5} & C_{5,5} \\ -(4,1) & -(4,2) & -(4,3) & 4C_{5,5} & 2C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix} \begin{bmatrix} 2V_5 \\ 0 \\ V_5 \\ 2V_5 \\ V_5 \end{bmatrix}$$

$$nr := 112$$

$$\begin{bmatrix} 0 & -1 & -1 & 0 & 1 \\ 1 & 0 & -1 & 0 & -1 \\ 1 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 0 & 0 \\ -1 & 1 & 1 & 0 & 0 \end{bmatrix}, \begin{bmatrix} 0 & 0 & 0 & 0 & 0 \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & 0 & 0 & 0 \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 0 \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 0 \end{bmatrix}, \begin{bmatrix} 0 \\ 0 \\ 0 \\ V_4 \\ 0 \end{bmatrix}$$

nr:= 113

$$\begin{bmatrix} 0 & -1 & -1 & 0 & 1 \\ 1 & 0 & -1 & 0 & 0 \\ 1 & 1 & 0 & -1 & -1 \\ 0 & 0 & 1 & 0 & -1 \\ -1 & 0 & 1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} C_{5,5} & 0 & C_{5,5} & 0 & C_{5,5} \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & C_{5,5} & 0 & C_{5,5} \\ -(4,1) & -(4,2) & -(4,3) & 0 & 0 \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} V_5 \\ 0 \\ V_5 \\ 0 \\ V_5 \end{bmatrix}$$

nr:= 114

$$\begin{bmatrix} 0 & -1 & -1 & 0 & 1 \\ 1 & 0 & -1 & 0 & 0 \\ 1 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & 0 & -1 \\ -1 & 0 & 0 & 1 & 0 \end{bmatrix}, \begin{bmatrix} C_{5,5} & 0 & C_{5,5} & C_{5,5} & C_{5,5} \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & C_{5,5} & C_{5,5} & C_{5,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{5,5} & C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} V_5 \\ 0 \\ V_5 \\ V_5 \\ V_5 \end{bmatrix}$$

nr:= 115

$$\begin{bmatrix} 0 & -1 & -1 & 0 & 1 \\ 1 & 0 & -1 & 0 & 0 \\ 1 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 0 & 0 \\ -1 & 0 & 1 & 0 & 0 \end{bmatrix}, \begin{bmatrix} C_{3,3} & C_{3,5} - C_{3,3} & C_{3,3} & C_{3,4} & C_{3,5} \\ -(2,1) & C_{5,5} - 2C_{3,5} + C_{3,3} & C_{3,5} - C_{3,3} & C_{4,5} - C_{3,4} & C_{5,5} - C_{3,5} \\ -(3,1) & -(3,2) & C_{3,3} & C_{3,4} & C_{3,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & C_{4,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} V_3 \\ V_5 - V_3 \\ V_3 \\ V_4 \\ V_5 \end{bmatrix}$$

nr:= 116

$$\begin{bmatrix} 0 & -1 & -1 & 0 & 1 \\ 1 & 0 & -1 & 0 & 1 \\ 1 & 1 & 0 & -1 & -1 \\ 0 & 0 & 1 & 0 & -1 \\ -1 & -1 & 1 & 1 & 0 \end{bmatrix}, \begin{bmatrix} 0 & 0 & 0 & 0 & 0 \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & C_{5,5} & -C_{5,5} & C_{5,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{5,5} & -C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} 0 \\ 0 \\ V_5 \\ -V_5 \\ V_5 \end{bmatrix}$$

nr:= 117

$$\begin{bmatrix} 0 & -1 & -1 & 0 & 1 \\ 1 & 0 & -1 & 1 & -1 \\ 1 & 1 & 0 & -1 & -1 \\ 0 & -1 & 1 & 0 & 0 \\ -1 & 1 & 1 & 0 & 0 \end{bmatrix}, \begin{bmatrix} 4C_{4,4} & 2C_{4,4} & 2C_{4,4} & 2C_{4,4} & 4C_{4,4} \\ -(2,1) & C_{4,4} & C_{4,4} & C_{4,4} & 2C_{4,4} \\ -(3,1) & -(3,2) & C_{4,4} & C_{4,4} & 2C_{4,4} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 2C_{4,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{4,4} \end{bmatrix}, \begin{bmatrix} 2V_4 \\ V_4 \\ V_4 \\ V_4 \\ 2V_4 \end{bmatrix}$$

nr:= 118

$$\begin{bmatrix} 0 & -1 & -1 & 0 & 1 \\ 1 & 0 & -1 & 1 & -1 \\ 1 & 1 & 0 & -1 & -1 \\ 0 & -1 & 1 & 0 & 1 \\ -1 & 1 & 1 & -1 & 0 \end{bmatrix}, \begin{bmatrix} C_{4,4} & 2C_{4,4} & 0 & C_{4,4} & 2C_{4,4} \\ -(2,1) & 4C_{4,4} & 0 & 2C_{4,4} & 4C_{4,4} \\ -(3,1) & -(3,2) & 0 & 0 & 0 \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 2C_{4,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{4,4} \end{bmatrix}, \begin{bmatrix} V_4 \\ 2V_4 \\ 0 \\ V_4 \\ 2V_4 \end{bmatrix}$$

nr:= 119



$$\begin{bmatrix} 0 & -1 & -1 & 0 & 1 \\ 1 & 0 & 0 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 1 & 1 & 0 & -1 \\ -1 & 0 & 0 & 1 & 0 \end{bmatrix} \begin{bmatrix} C_{4,4} & C_{4,5} - C_{3,4} & C_{3,4} & C_{4,4} & C_{4,5} \\ -(2,1) & C_{5,5} - 2C_{3,5} + C_{3,3} & C_{3,5} - C_{3,3} & C_{4,5} - C_{3,4} & C_{5,5} - C_{3,5} \\ -(3,1) & -(3,2) & C_{3,3} & C_{3,4} & C_{3,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & C_{4,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix} \begin{bmatrix} V_4 \\ V_5 - V_3 \\ V_3 \\ V_4 \\ V_5 \end{bmatrix}$$

nr:=127

$$\begin{bmatrix} 0 & -1 & -1 & 0 & 1 \\ 1 & 0 & 0 & -1 & 0 \\ 1 & 0 & 0 & 0 & -1 \\ 0 & 1 & 0 & 0 & -1 \\ -1 & 0 & 1 & 1 & 0 \end{bmatrix} \begin{bmatrix} C_{5,5} & C_{5,5} & 0 & C_{5,5} & C_{5,5} \\ -(2,1) & C_{5,5} & 0 & C_{5,5} & C_{5,5} \\ -(3,1) & -(3,2) & 0 & 0 & 0 \\ -(4,1) & -(4,2) & -(4,3) & C_{5,5} & C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix} \begin{bmatrix} V_5 \\ V_5 \\ 0 \\ V_5 \\ V_5 \end{bmatrix}$$

nr:=128

$$\begin{bmatrix} 0 & -1 & -1 & 0 & 1 \\ 1 & 0 & 0 & -1 & 0 \\ 1 & 0 & 0 & 1 & -1 \\ 0 & 1 & -1 & 0 & 0 \\ -1 & 0 & 1 & 0 & 0 \end{bmatrix} \begin{bmatrix} C_{4,4} & C_{4,4} & C_{4,4} & C_{4,4} & 2C_{4,4} \\ -(2,1) & C_{4,4} & C_{4,4} & C_{4,4} & 2C_{4,4} \\ -(3,1) & -(3,2) & C_{4,4} & C_{4,4} & 2C_{4,4} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & 2C_{4,4} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & 4C_{4,4} \end{bmatrix} \begin{bmatrix} V_4 \\ V_4 \\ V_4 \\ V_4 \\ 2V_4 \end{bmatrix}$$

nr:=129

$$\begin{bmatrix} 0 & -1 & -1 & 0 & 1 \\ 1 & 0 & 0 & 0 & -1 \\ 1 & 0 & 0 & 0 & -1 \\ 0 & 0 & 0 & 0 & 0 \\ -1 & 1 & 1 & 0 & 0 \end{bmatrix} \begin{bmatrix} C_{5,5} & C_{5,5} - C_{3,5} & C_{3,5} & C_{4,5} & C_{5,5} \\ -(2,1) & C_{5,5} - 2C_{3,5} + C_{3,3} & C_{3,5} - C_{3,3} & C_{4,5} - C_{3,4} & C_{5,5} - C_{3,5} \\ -(3,1) & -(3,2) & C_{3,3} & C_{3,4} & C_{3,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & C_{4,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix} \begin{bmatrix} V_5 \\ V_5 - V_3 \\ V_3 \\ V_4 \\ V_5 \end{bmatrix}$$

nr:=130

$$\begin{bmatrix} 0 & -1 & -1 & 0 & 1 \\ 1 & 0 & 0 & 0 & -1 \\ 1 & 0 & 0 & 1 & -1 \\ 0 & 0 & -1 & 0 & 1 \\ -1 & 1 & 1 & -1 & 0 \end{bmatrix} \begin{bmatrix} C_{5,5} & 0 & C_{5,5} & 0 & C_{5,5} \\ -(2,1) & 0 & 0 & 0 & 0 \\ -(3,1) & -(3,2) & C_{5,5} & 0 & C_{5,5} \\ -(4,1) & -(4,2) & -(4,3) & 0 & 0 \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix} \begin{bmatrix} V_5 \\ 0 \\ V_5 \\ 0 \\ V_5 \end{bmatrix}$$

nr:=131

$$\begin{bmatrix} 0 & -1 & -1 & 0 & 1 \\ 1 & 0 & 0 & 1 & -1 \\ 1 & 0 & 0 & 1 & -1 \\ 0 & -1 & -1 & 0 & 1 \\ -1 & 1 & 1 & -1 & 0 \end{bmatrix} \begin{bmatrix} C_{5,5} - 2C_{4,5} + C_{4,4} & -C_{3,5} + C_{3,4} + C_{5,5} - C_{4,5} & C_{3,5} - C_{3,4} & C_{4,5} - C_{4,4} & C_{5,5} - C_{4,5} \\ -(2,1) & C_{5,5} - 2C_{3,5} + C_{3,3} & C_{3,5} - C_{3,3} & C_{4,5} - C_{3,4} & C_{5,5} - C_{3,5} \\ -(3,1) & -(3,2) & C_{3,3} & C_{3,4} & C_{3,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & C_{4,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix} \begin{bmatrix} V_5 - V_4 \\ V_5 - V_3 \\ V_3 \\ V_4 \\ V_5 \end{bmatrix}$$

nr:=132

$$\begin{bmatrix} 0 & -1 & -1 & 1 & 1 \\ 1 & 0 & -1 & -1 & 1 \\ 1 & 1 & 0 & -1 & -1 \\ -1 & 1 & 1 & 0 & -1 \\ -1 & -1 & 1 & 1 & 0 \end{bmatrix} \begin{bmatrix} C_{5,5} & C_{5,5} & C_{5,5} & C_{5,5} & C_{5,5} \\ -(2,1) & C_{5,5} & C_{5,5} & C_{5,5} & C_{5,5} \\ -(3,1) & -(3,2) & C_{5,5} & C_{5,5} & C_{5,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{5,5} & C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix} \begin{bmatrix} V_5 \\ V_5 \\ V_5 \\ V_5 \\ V_5 \end{bmatrix}$$

nr := 133

$$\begin{bmatrix} 0 & -1 & -1 & 1 & 1 \\ 1 & 0 & -1 & 0 & 0 \\ 1 & 1 & 0 & -1 & -1 \\ -1 & 0 & 1 & 0 & 0 \\ -1 & 0 & 1 & 0 & 0 \end{bmatrix},$$

$$\begin{bmatrix} C_{3,3} & C_{3,5} + C_{3,4} - C_{3,3} & C_{3,3} & C_{3,4} & C_{3,5} \\ -(2,1) & C_{5,5} + 2C_{4,5} - 2C_{3,5} + C_{4,4} - 2C_{3,4} + C_{3,3} & C_{3,5} + C_{3,4} - C_{3,3} & C_{4,5} + C_{4,4} - C_{3,4} & C_{5,5} + C_{4,5} - C_{3,5} \\ -(3,1) & -(3,2) & C_{3,3} & C_{3,4} & C_{3,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & C_{4,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix},$$

$$\begin{bmatrix} V_3 \\ V_5 + V_4 - V_3 \\ V_3 \\ V_4 \\ V_5 \end{bmatrix}$$

nr := 134

$$\begin{bmatrix} 0 & -1 & -1 & 1 & 1 \\ 1 & 0 & 0 & -1 & 0 \\ 1 & 0 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & 0 \\ -1 & 0 & 1 & 0 & 0 \end{bmatrix}, \begin{bmatrix} C_{5,5} & C_{5,5} & C_{5,5} & C_{5,5} & C_{5,5} \\ -(2,1) & C_{5,5} & C_{5,5} & C_{5,5} & C_{5,5} \\ -(3,1) & -(3,2) & C_{5,5} & C_{5,5} & C_{5,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{5,5} & C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} V_5 \\ V_5 \\ V_5 \\ V_5 \\ V_5 \end{bmatrix}$$

nr := 135

$$\begin{bmatrix} 0 & -1 & 0 & 0 & 1 \\ 1 & 0 & -1 & 0 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & 0 & -1 \\ -1 & 0 & 0 & 1 & 0 \end{bmatrix}, \begin{bmatrix} C_{5,5} & C_{5,5} & C_{5,5} & C_{5,5} & C_{5,5} \\ -(2,1) & C_{5,5} & C_{5,5} & C_{5,5} & C_{5,5} \\ -(3,1) & -(3,2) & C_{5,5} & C_{5,5} & C_{5,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{5,5} & C_{5,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} V_5 \\ V_5 \\ V_5 \\ V_5 \\ V_5 \end{bmatrix}$$

nr := 136

$$\begin{bmatrix} 0 & -1 & 0 & 0 & 1 \\ 1 & 0 & -1 & 0 & 0 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 0 & 0 \\ -1 & 0 & 1 & 0 & 0 \end{bmatrix}, \begin{bmatrix} C_{3,3} & C_{3,5} & C_{3,3} & C_{3,4} & C_{3,5} \\ -(2,1) & C_{5,5} & C_{3,5} & C_{4,5} & C_{5,5} \\ -(3,1) & -(3,2) & C_{3,3} & C_{3,4} & C_{3,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & C_{4,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} V_3 \\ V_5 \\ V_3 \\ V_4 \\ V_5 \end{bmatrix}$$

nr := 137

$$\begin{bmatrix} 0 & -1 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & -1 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \\ -1 & 1 & 0 & 0 & 0 \end{bmatrix}, \begin{bmatrix} C_{5,5} & C_{5,5} & C_{3,5} & C_{4,5} & C_{5,5} \\ -(2,1) & C_{5,5} & C_{3,5} & C_{4,5} & C_{5,5} \\ -(3,1) & -(3,2) & C_{3,3} & C_{3,4} & C_{3,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & C_{4,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} V_5 \\ V_5 \\ V_3 \\ V_4 \\ V_5 \end{bmatrix}$$

nr := 138



$$\begin{bmatrix} 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \end{bmatrix}, \begin{bmatrix} C_{1,1} & C_{1,2} & C_{1,3} & C_{1,4} & C_{1,5} \\ -(2,1) & C_{2,2} & C_{2,3} & C_{2,4} & C_{2,5} \\ -(3,1) & -(3,2) & C_{3,3} & C_{3,4} & C_{3,5} \\ -(4,1) & -(4,2) & -(4,3) & C_{4,4} & C_{4,5} \\ -(5,1) & -(5,2) & -(5,3) & -(5,4) & C_{5,5} \end{bmatrix}, \begin{bmatrix} V_1 \\ V_2 \\ V_3 \\ V_4 \\ V_5 \end{bmatrix}$$

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