A COMPLETE LIST OF g-VECTORS FOR $\mathcal{L}_5$

We recall that $\mathcal{L}_5 = \mathbb{F}Q/I$ is given by

$$Q: \quad 1 \underset{\beta_1}{\overset{\alpha_1}{\rightleftarrows}} 2 \underset{\beta_2}{\overset{\alpha_2}{\rightleftarrows}} 4 \underset{\beta_3}{\overset{\alpha_3}{\rightleftarrows}} 5$$

$$\beta_4 \Big\uparrow \Big\downarrow \alpha_4$$

$$3$$

with I :

$$\left\langle \begin{array}{c} \alpha_1\beta_1, \alpha_1\alpha_4, \beta_3\alpha_3, \beta_2\alpha_2, \beta_4\alpha_4, \beta_4\beta_1, \beta_4\alpha_2\beta_2, \alpha_1\alpha_2\alpha_3, \alpha_2\beta_2\alpha_4, \beta_3\beta_2\beta_1, \\ \beta_1\alpha_1\alpha_2 - \alpha_2\alpha_3\beta_3, \beta_2\beta_1\alpha_1 - \alpha_3\beta_3\beta_2, \alpha_2\beta_2\beta_1\alpha_1 - \beta_1\alpha_1\alpha_2\beta_2 \end{array} \right\rangle.$$

Then, the complete list of g-vectors for $\mathcal{L}_5$ is as follows.

(1)
$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

(2)
$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(3)
$$\begin{pmatrix} 0 & 0 & 0 & 1 & -1 \\ 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(4)
$$\begin{pmatrix} 0 & 1 & 0 & -1 & 1 \\ 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(5)
$$\begin{pmatrix} 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(6)
$$\begin{pmatrix} 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(7)
$$\begin{pmatrix} -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

(8)
$$\begin{pmatrix} 0 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(9)
$$\begin{pmatrix} 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(10)
$$\begin{pmatrix} 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(11) $\begin{pmatrix} -1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \end{pmatrix}$

(12) $\begin{pmatrix} 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(13) $\begin{pmatrix} 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(14) $\begin{pmatrix} 1 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(15) $\begin{pmatrix} -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

(16) $\begin{pmatrix} 0 & 0 & -1 & 1 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$

$$(17) \quad \begin{pmatrix} -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(18) \quad \begin{pmatrix} 2 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(19) \quad \begin{pmatrix} 1 & -1 & 0 & 2 & 0 \\ 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(20) \quad \begin{pmatrix} 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(21) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(22) \quad \begin{pmatrix} 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 1 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(23)
$$\begin{pmatrix} 0 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(24)
$$\begin{pmatrix} 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(25)
$$\begin{pmatrix} -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \end{pmatrix}$$

(26)
$$\begin{pmatrix} 0 & 0 & -1 & 1 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(27)
$$\begin{pmatrix} -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \end{pmatrix}$$

(28)
$$\begin{pmatrix} 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & -1 & 1 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(29)
$$\begin{pmatrix} 1 & -1 & 0 & 2 & 0 \\ 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(30)
$$\begin{pmatrix} 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \end{pmatrix}$$

(31)
$$\begin{pmatrix} -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \end{pmatrix}$$

(32)
$$\begin{pmatrix} 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 1 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(33)
$$\begin{pmatrix} 1 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(34)
$$\begin{pmatrix} -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \end{pmatrix}$$

$$(35) \quad \begin{pmatrix} 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(36) \quad \begin{pmatrix} -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(37) \quad \begin{pmatrix} 1 & 1 & 0 & -2 & 2 \\ 1 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(38) \quad \begin{pmatrix} 2 & -1 & 1 & 0 & 1 \\ 1 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(39) \quad \begin{pmatrix} 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(40) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(41) \quad \begin{pmatrix} 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(42) \quad \begin{pmatrix} 1 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(43) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(44) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & 0 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(45) \quad \begin{pmatrix} 2 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(46) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & 1 \\ 2 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(47) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 1 \\ 2 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(48) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 2 & 0 \\ 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(49) \quad \begin{pmatrix} 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 2 & 0 \\ 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(50) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(51) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(52) \quad \begin{pmatrix} -2 & 1 & 0 & 0 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(53) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(54) \quad \begin{pmatrix} 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 1 & -1 & 0 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(55) \quad \begin{pmatrix} 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(56) \quad \begin{pmatrix} -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 1 & 0 & 0 & 0 \end{pmatrix}$$

$$(57) \quad \begin{pmatrix} 0 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(58) \quad \begin{pmatrix} 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(59) \quad \begin{pmatrix} 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & -1 & 1 & 1 & -1 \\ 0 & 0 & 1 & 0 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(60) \quad \begin{pmatrix} -1 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$$

$$(61) \quad \begin{pmatrix} -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \end{pmatrix}$$

$$(62) \quad \begin{pmatrix} -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & 0 \end{pmatrix}$$

$$(63) \quad \begin{pmatrix} 0 & 0 & -1 & 1 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(64) \quad \begin{pmatrix} 1 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(65) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & 0 \end{pmatrix}$$

$$(66) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & 0 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & 0 \end{pmatrix}$$

$$(67) \quad \begin{pmatrix} 1 & -1 & 0 & 2 & -1 \\ 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 1 & -1 & 1 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(68) \quad \begin{pmatrix} 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & -1 & 1 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(69) \quad \begin{pmatrix} 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(70) \quad \begin{pmatrix} 1 & -1 & 0 & 2 & -1 \\ 1 & -1 & 0 & 2 & 0 \\ 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(71) \quad \begin{pmatrix} 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 2 & 0 \\ 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & 0 \end{pmatrix}$$

$$(72) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \end{pmatrix}$$

$$(73) \quad \begin{pmatrix} -2 & 1 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & 0 \end{pmatrix}$$

$$(74) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & 0 \end{pmatrix}$$

$$(75) \quad \begin{pmatrix} 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(76) \quad \begin{pmatrix} -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 1 & 0 & 0 & 0 \end{pmatrix}$$

(77)
$$\begin{pmatrix} 1 & 1 & 0 & -2 & 2 \\ 1 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(78)
$$\begin{pmatrix} 1 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(79)
$$\begin{pmatrix} 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 \end{pmatrix}$$

(80)
$$\begin{pmatrix} -1 & 1 & 0 & -1 & 1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 \end{pmatrix}$$

(81)
$$\begin{pmatrix} 0 & 0 & -1 & 0 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(82)
$$\begin{pmatrix} 1 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(83)
$$\begin{pmatrix} -1 & 2 & -1 & -1 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

(84)
$$\begin{pmatrix} -1 & 2 & -1 & -1 & 1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

(85)
$$\begin{pmatrix} 1 & 0 & 0 & -1 & 2 \\ 1 & 1 & 0 & -2 & 2 \\ 1 & 0 & 1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(86)
$$\begin{pmatrix} 0 & 0 & 1 & -1 & 1 \\ 1 & 1 & 0 & -2 & 2 \\ 1 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

(87)
$$\begin{pmatrix} 2 & -1 & 1 & 0 & 1 \\ 1 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(88)
$$\begin{pmatrix} 1 & 0 & 0 & -1 & 2 \\ 2 & -1 & 1 & 0 & 1 \\ 1 & 0 & 1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(89) $\begin{pmatrix} 1 & -1 & 1 & 0 & 1 \\ 2 & -1 & 1 & 0 & 1 \\ 1 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

(90) $\begin{pmatrix} 1 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

(91) $\begin{pmatrix} -1 & 1 & 0 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

(92) $\begin{pmatrix} -1 & 2 & -1 & -1 & 1 \\ -1 & 1 & 0 & -1 & 1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

(93) $\begin{pmatrix} -2 & 1 & 0 & 0 & 0 \\ -1 & 1 & 0 & -1 & 1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

(94) $\begin{pmatrix} 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & -1 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$

(95)
$$\begin{pmatrix} 1 & -1 & 0 & 1 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(96)
$$\begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

(97)
$$\begin{pmatrix} 1 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(98)
$$\begin{pmatrix} 0 & -1 & 0 & 2 & 0 \\ 1 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

(99)
$$\begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

(100)
$$\begin{pmatrix} -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & -1 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(101) \quad \begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 1 & 0 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(102) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 2 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 1 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(103) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 1 \\ 2 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(104) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 1 \\ 2 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 1 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(105) \quad \begin{pmatrix} 2 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 1 & 1 \\ 2 & -1 & 1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(106) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 1 \\ 1 & -1 & 0 & 1 & 1 \\ 2 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(107) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 2 & 0 \\ 1 & -1 & 1 & 1 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(108) \quad \begin{pmatrix} 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 2 & 0 \\ 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(109) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 2 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(110) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(111) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(112) \quad \begin{pmatrix} 0 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

(113) $\begin{pmatrix} 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(114) $\begin{pmatrix} 0 & -1 & 0 & 2 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

(115) $\begin{pmatrix} -2 & 1 & 0 & 1 & -1 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \end{pmatrix}$

(116) $\begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

(117) $\begin{pmatrix} 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(118) $\begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 1 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

$$(119) \quad \begin{pmatrix} 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 1 & -1 & 0 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(120) \quad \begin{pmatrix} 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 1 & -1 & 0 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(121) \quad \begin{pmatrix} 0 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 1 & -1 & 0 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(122) \quad \begin{pmatrix} -1 & 2 & -1 & 0 & -1 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(123) \quad \begin{pmatrix} -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & 0 & 0 \end{pmatrix}$$

$$(124) \quad \begin{pmatrix} -1 & 2 & -1 & 0 & -1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

(125) $\begin{pmatrix} 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(126) $\begin{pmatrix} 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(127) $\begin{pmatrix} -1 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$

(128) $\begin{pmatrix} 0 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 0 & 0 & 1 & 0 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(129) $\begin{pmatrix} -1 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$

(130) $\begin{pmatrix} 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & -2 \\ 1 & -1 & 1 & 1 & -1 \\ 0 & 0 & 1 & 0 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$

$$(131) \quad \begin{pmatrix} 0 & 0 & 1 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & -1 & 1 & 1 & -1 \\ 0 & 0 & 1 & 0 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(132) \quad \begin{pmatrix} 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 1 & 1 & -1 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$$

$$(133) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$$

$$(134) \quad \begin{pmatrix} -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 0 & 1 & 0 & 0 \end{pmatrix}$$

$$(135) \quad \begin{pmatrix} -1 & 2 & -1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(136) \quad \begin{pmatrix} -2 & 1 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & 0 \end{pmatrix}$$

$$(137) \quad \begin{pmatrix} 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(138) \quad \begin{pmatrix} 1 & -1 & 0 & 2 & -1 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(139) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & -1 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(140) \quad \begin{pmatrix} 1 & -1 & 0 & 2 & -1 \\ 1 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(141) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & 0 \\ 1 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & 0 \end{pmatrix}$$

$$(142) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & -1 \\ -1 & 1 & -1 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(143) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & -1 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & 0 \end{pmatrix}$$

$$(144) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & -1 \\ -1 & 1 & -1 & 1 & 0 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(145) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 2 & -1 \\ 1 & -1 & 1 & 1 & 0 \\ 1 & -1 & 1 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(146) \quad \begin{pmatrix} 1 & -1 & 0 & 2 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \\ 1 & -1 & 1 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(147) \quad \begin{pmatrix} 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 2 & -1 \\ 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(148) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 1 & 1 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & -1 & 1 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(149) \quad \begin{pmatrix} 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(150) \quad \begin{pmatrix} 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(151) \quad \begin{pmatrix} 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(152) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 2 & -1 \\ 1 & -1 & 0 & 2 & 0 \\ 1 & -1 & 1 & 1 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(153) \quad \begin{pmatrix} 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 2 & -1 \\ 1 & -1 & 0 & 2 & 0 \\ 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(154) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 2 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & 0 \end{pmatrix}$$

$$(155) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & 0 \end{pmatrix}$$

$$(156) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & 0 \end{pmatrix}$$

$$(157) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & -1 \\ -2 & 1 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(158) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & 0 \end{pmatrix}$$

$$(159) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & -1 \\ -1 & 1 & -1 & 1 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(160) \quad \begin{pmatrix} 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(161) \quad \begin{pmatrix} 1 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(162) \quad \begin{pmatrix} -1 & 2 & -1 & -1 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 \end{pmatrix}$$

$$(163) \quad \begin{pmatrix} -1 & 2 & -1 & -1 & 1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 \end{pmatrix}$$

$$(164) \quad \begin{pmatrix} 1 & 1 & 0 & -2 & 1 \\ 1 & 1 & 0 & -2 & 2 \\ 1 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(165) \quad \begin{pmatrix} 0 & 0 & 1 & -1 & 1 \\ 1 & 1 & 0 & -2 & 2 \\ 1 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 \end{pmatrix}$$

$$(166) \quad \begin{pmatrix} 1 & 1 & 0 & -2 & 1 \\ 1 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(167) \quad \begin{pmatrix} 1 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(168) \quad \begin{pmatrix} 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(169) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 \end{pmatrix}$$

$$(170) \quad \begin{pmatrix} -1 & 2 & -1 & -1 & 1 \\ -1 & 1 & 0 & -1 & 1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 \end{pmatrix}$$

$$(171) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & 1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & 0 & 0 \end{pmatrix}$$

$$(172) \quad \begin{pmatrix} 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

(173) $\begin{pmatrix} 1 & 0 & 0 & -1 & 2 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(174) $\begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

(175) $\begin{pmatrix} 1 & 0 & 0 & -1 & 2 \\ 1 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(176) $\begin{pmatrix} 0 & 1 & 0 & -2 & 2 \\ 1 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

(177) $\begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -1 & 2 & -1 & -1 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

(178) $\begin{pmatrix} -1 & 1 & 0 & -1 & 1 \\ -1 & 2 & -1 & -1 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

$$(179) \quad \begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -1 & 2 & -1 & -1 & 1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(180) \quad \begin{pmatrix} 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 2 \\ 1 & 1 & 0 & -2 & 2 \\ 1 & 0 & 1 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(181) \quad \begin{pmatrix} 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 2 \\ 1 & 1 & 0 & -2 & 2 \\ 1 & 0 & 1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(182) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 2 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 1 & 0 & -2 & 2 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(183) \quad \begin{pmatrix} 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & 0 & 1 \\ 1 & 0 & 1 & -1 & 1 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(184) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 1 \\ 2 & -1 & 1 & 0 & 1 \\ 1 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(185) \quad \begin{pmatrix} 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 2 \\ 2 & -1 & 1 & 0 & 1 \\ 1 & 0 & 1 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(186) \quad \begin{pmatrix} 2 & -1 & 0 & 0 & 2 \\ 1 & 0 & 0 & -1 & 2 \\ 2 & -1 & 1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(187) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 1 \\ 1 & 0 & 0 & -1 & 2 \\ 2 & -1 & 1 & 0 & 1 \\ 1 & 0 & 1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(188) \quad \begin{pmatrix} 2 & -1 & 2 & -1 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 \end{pmatrix}$$

$$(189) \quad \begin{pmatrix} 1 & 0 & 0 & -1 & 2 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(190) \quad \begin{pmatrix} 0 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(191) \begin{pmatrix} 0 & 1 & 0 & -2 & 2 \\ -1 & 1 & 0 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(192) \begin{pmatrix} 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & -1 & 1 \\ -1 & 1 & 0 & -1 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(193) \begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -1 & 2 & -1 & -1 & 1 \\ -1 & 1 & 0 & -1 & 1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(194) \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 1 & 0 & -1 & 1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \end{pmatrix}$$

$$(195) \begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 1 & 0 & -1 & 1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(196) \begin{pmatrix} 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 1 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(197)
$$\begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & -1 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

(198)
$$\begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

(199)
$$\begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 1 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(200)
$$\begin{pmatrix} 2 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 1 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(201)
$$\begin{pmatrix} 0 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 1 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

(202)
$$\begin{pmatrix} -1 & 0 & -1 & 1 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

(203) $\begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(204) $\begin{pmatrix} 0 & -1 & 0 & 2 & 0 \\ 1 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

(205) $\begin{pmatrix} -1 & 0 & 0 & 1 & 0 \\ 0 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

(206) $\begin{pmatrix} -1 & 1 & -1 & 1 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 1 & -1 & 0 & 0 \end{pmatrix}$

(207) $\begin{pmatrix} -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

(208) $\begin{pmatrix} -1 & 1 & -1 & 1 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 1 & 0 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \end{pmatrix}$

$$(209) \quad \begin{pmatrix} 2 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 2 & -1 & 1 & 0 & 1 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(210) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 2 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 1 & 0 \\ 2 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(211) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(212) \quad \begin{pmatrix} 2 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 1 \\ 2 & -1 & 1 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(213) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 1 \\ 2 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 1 & 0 \end{pmatrix}$$

$$(214) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 1 \\ 2 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 1 & 1 \\ 2 & -1 & 1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(215) \quad \begin{pmatrix} 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 2 & 0 \\ 1 & -1 & 1 & 1 & 0 \end{pmatrix}$$

$$(216) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 2 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(217) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 1 & 1 & 0 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(218) \quad \begin{pmatrix} 0 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(219) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 1 & 1 & 0 \end{pmatrix}$$

$$(220) \quad \begin{pmatrix} 1 & -2 & 1 & 1 & 2 \\ 1 & -1 & 0 & 1 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

(221)
$$\begin{pmatrix} 1 & -2 & 1 & 1 & 2 \\ 0 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

(222)
$$\begin{pmatrix} 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & -1 & 1 & 0 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(223)
$$\begin{pmatrix} -1 & -1 & 0 & 2 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(224)
$$\begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(225)
$$\begin{pmatrix} -1 & -1 & 0 & 2 & 0 \\ 0 & -1 & 0 & 2 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

(226)
$$\begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -2 & 1 & 0 & 1 & -1 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & 0 & 0 & 0 \end{pmatrix}$$

$$(227) \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & 0 & 1 & -1 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ 0 & 0 & 1 & 0 & 0 \end{pmatrix}$$

$$(228) \begin{pmatrix} -1 & 1 & 0 & 0 & -1 \\ -2 & 1 & 0 & 1 & -1 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \end{pmatrix}$$

$$(229) \begin{pmatrix} -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(230) \begin{pmatrix} -2 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ -1 & 0 & 0 & 1 & 0 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(231) \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(232) \begin{pmatrix} -1 & 1 & -1 & 1 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 1 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & 0 & 0 & 0 \end{pmatrix}$$

(233) $\begin{pmatrix} 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & 0 & -1 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$

(234) $\begin{pmatrix} 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 1 & -1 & 0 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(235) $\begin{pmatrix} -1 & 2 & -1 & 0 & -1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$

(236) $\begin{pmatrix} 0 & 1 & -1 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$

(237) $\begin{pmatrix} 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 1 & -1 & 0 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(238) $\begin{pmatrix} -1 & 1 & -1 & 1 & -1 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$

$$(239) \quad \begin{pmatrix} 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 1 & -1 & 0 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(240) \quad \begin{pmatrix} -1 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(241) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & -1 \\ -1 & 2 & -1 & 0 & -1 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(242) \quad \begin{pmatrix} -1 & 1 & 0 & 0 & -1 \\ -1 & 2 & -1 & 0 & -1 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(243) \quad \begin{pmatrix} -1 & 2 & -1 & 0 & -1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & 0 & 0 & -1 \end{pmatrix}$$

$$(244) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & -1 \\ -1 & 2 & -1 & 0 & -1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

(245) $\begin{pmatrix} 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(246) $\begin{pmatrix} -1 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$

(247) $\begin{pmatrix} 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(248) $\begin{pmatrix} -1 & 1 & 0 & 1 & -3 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$

(249) $\begin{pmatrix} -1 & 1 & 0 & 1 & -3 \\ -1 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$

(250) $\begin{pmatrix} 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 1 & 0 & 1 & -1 & 0 \\ 0 & 0 & 1 & 0 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(251) $\begin{pmatrix} 0 & 0 & 1 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 0 & 0 & 1 & 0 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(252) $\begin{pmatrix} 0 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 0 & 0 & 1 & 0 & -1 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$

(253) $\begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$

(254) $\begin{pmatrix} 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 \\ 1 & -1 & 1 & 1 & -1 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(255) $\begin{pmatrix} 0 & 0 & 0 & 1 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ 0 & 0 & 0 & 1 & -2 \\ 1 & -1 & 1 & 1 & -1 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$

(256) $\begin{pmatrix} 0 & 0 & 0 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \\ 0 & 0 & 0 & 1 & -2 \\ 1 & -1 & 1 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$

$$
(257) \quad \begin{pmatrix} 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 \\ 1 & -1 & 1 & 1 & -1 \\ 2 & -1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}
$$

$$
(258) \quad \begin{pmatrix} 0 & 0 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & -1 & 1 & 1 & -1 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}
$$

$$
(259) \quad \begin{pmatrix} 0 & 0 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 1 & 1 & -1 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}
$$

$$
(260) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & -1 & 1 & 1 & -1 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}
$$

$$
(261) \quad \begin{pmatrix} -1 & 1 & 0 & 1 & -3 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}
$$

$$
(262) \quad \begin{pmatrix} -2 & 1 & 0 & 0 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}
$$

$$(263) \quad \begin{pmatrix} -1 & 2 & -1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 \end{pmatrix}$$

$$(264) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & 0 & 0 \end{pmatrix}$$

$$(265) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & -1 \\ -1 & 2 & -1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(266) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & -1 \\ -2 & 1 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(267) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & 0 \end{pmatrix}$$

$$(268) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(269) \quad \begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(270) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 2 & -1 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & -1 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(271) \quad \begin{pmatrix} 1 & -1 & 0 & 2 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \\ 0 & 0 & -1 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(272) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ 1 & -1 & 0 & 2 & -1 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(273) \quad \begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 1 & -1 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(274) \quad \begin{pmatrix} -1 & 0 & -1 & 2 & -1 \\ -1 & 1 & -1 & 1 & -1 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(275) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 2 & -1 \\ 1 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(276) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & 0 \\ 1 & -1 & 0 & 2 & -1 \\ 1 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(277) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & 0 \\ 0 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & 0 \end{pmatrix}$$

$$(278) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & -1 & 1 & -1 \\ -1 & 1 & -1 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(279) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 2 & -1 \\ 1 & -1 & 0 & 2 & -2 \\ 1 & -1 & 1 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(280) \quad \begin{pmatrix} 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 2 & -1 \\ 1 & -1 & 1 & 1 & 0 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(281) \quad \begin{pmatrix} 1 & -2 & 1 & 3 & -2 \\ 1 & -1 & 0 & 2 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(282) \quad \begin{pmatrix} 1 & -2 & 1 & 3 & -2 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 2 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(283) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & -1 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & -1 & 1 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(284) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 1 & 1 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(285) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 1 & 1 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(286) \quad \begin{pmatrix} 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(287) \quad \begin{pmatrix} 1 & -2 & 1 & 3 & -2 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(288) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(289) \quad \begin{pmatrix} 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 2 & -1 \\ 1 & -1 & 0 & 2 & 0 \\ 1 & -1 & 1 & 1 & 0 \end{pmatrix}$$

$$(290) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 2 & -1 \\ 1 & -1 & 0 & 2 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(291) \quad \begin{pmatrix} -1 & -1 & 0 & 3 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(292) \quad \begin{pmatrix} -1 & -1 & 0 & 3 & -1 \\ 0 & -1 & 0 & 2 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(293) \quad \begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 1 & -1 \\ -2 & 1 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & 0 & 0 & 0 \end{pmatrix}$$

$$(294) \quad \begin{pmatrix} -2 & 1 & -1 & 2 & -2 \\ -1 & 1 & -1 & 1 & -1 \\ -2 & 1 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(295) \quad \begin{pmatrix} -2 & 1 & -1 & 2 & -2 \\ -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(296) \quad \begin{pmatrix} 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(297) \quad \begin{pmatrix} 1 & 1 & 0 & -2 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(298) \quad \begin{pmatrix} -1 & 2 & -1 & -1 & 0 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(299) \quad \begin{pmatrix} 1 & 1 & 0 & -2 & 1 \\ 1 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(300) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 2 \\ 1 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 \end{pmatrix}$$

$$(301) \quad \begin{pmatrix} -1 & 2 & -1 & -1 & 0 \\ -1 & 2 & -1 & -1 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$$

$$(302) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 1 \\ -1 & 2 & -1 & -1 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 \end{pmatrix}$$

$$(303) \quad \begin{pmatrix} -1 & 2 & -1 & -1 & 0 \\ -1 & 2 & -1 & -1 & 1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$$

$$(304) \quad \begin{pmatrix} 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 1 \\ 1 & 1 & 0 & -2 & 2 \\ 1 & 0 & 1 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(305) \quad \begin{pmatrix} 0 & 0 & 1 & -1 & 1 \\ 1 & 1 & 0 & -2 & 1 \\ 1 & 1 & 0 & -2 & 2 \\ 1 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$$

$$(306) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 2 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 1 & 0 & -2 & 2 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 \end{pmatrix}$$

$$(307) \quad \begin{pmatrix} 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 1 \\ 1 & 0 & 1 & -1 & 1 \\ 1 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(308) \quad \begin{pmatrix} 1 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 1 & 1 & 0 & -2 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(309) \quad \begin{pmatrix} 0 & 0 & 1 & -1 & 1 \\ 1 & 1 & 0 & -2 & 1 \\ 1 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 1 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(310) \quad \begin{pmatrix} 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 1 & -1 & 1 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(311) $\begin{pmatrix} 2 & -1 & 2 & -1 & 1 \\ 1 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \end{pmatrix}$

(312) $\begin{pmatrix} 2 & -1 & 2 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \end{pmatrix}$

(313) $\begin{pmatrix} 0 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$

(314) $\begin{pmatrix} 0 & 1 & 0 & -2 & 2 \\ -1 & 1 & 0 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 \end{pmatrix}$

(315) $\begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & 0 & 0 \end{pmatrix}$

(316) $\begin{pmatrix} -1 & 2 & -1 & -1 & 0 \\ -1 & 2 & -1 & -1 & 1 \\ -1 & 1 & 0 & -1 & 1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$

(317)
$$\begin{pmatrix} -1 & 2 & -1 & -1 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & 1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$$

(318)
$$\begin{pmatrix} 1 & 0 & 0 & -1 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

(319)
$$\begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

(320)
$$\begin{pmatrix} 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 2 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(321)
$$\begin{pmatrix} 2 & -1 & 0 & 0 & 2 \\ 1 & 0 & 0 & -1 & 2 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(322)
$$\begin{pmatrix} 0 & 0 & 0 & -1 & 2 \\ 1 & 0 & 0 & -1 & 2 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

(323) $\begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

(324) $\begin{pmatrix} 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 2 \\ 1 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(325) $\begin{pmatrix} 0 & 1 & 0 & -2 & 2 \\ 1 & 0 & 0 & -1 & 2 \\ 1 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

(326) $\begin{pmatrix} -1 & 1 & 0 & -1 & 1 \\ 0 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

(327) $\begin{pmatrix} -1 & 2 & -1 & -1 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 2 & -1 & -1 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & -1 & 0 & 0 \end{pmatrix}$

(328) $\begin{pmatrix} -1 & 1 & 0 & -1 & 1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 2 & -1 & -1 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

$$(329) \quad \begin{pmatrix} -1 & 2 & -1 & -1 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 2 & -1 & -1 & 1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \end{pmatrix}$$

$$(330) \quad \begin{pmatrix} 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 2 \\ 1 & 1 & 0 & -2 & 2 \\ 1 & 0 & 1 & -1 & 1 \end{pmatrix}$$

$$(331) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 2 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 2 \\ 1 & 1 & 0 & -2 & 2 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(332) \quad \begin{pmatrix} 2 & -1 & 0 & 0 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & 0 & 1 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(333) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & 0 & 1 \\ 1 & 0 & 1 & -1 & 1 \\ 2 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(334) \quad \begin{pmatrix} 2 & -1 & 2 & -1 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 1 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(335) \quad \begin{pmatrix} 2 & -1 & 0 & 0 & 2 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 2 \\ 2 & -1 & 1 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(336) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 2 \\ 2 & -1 & 1 & 0 & 1 \\ 1 & 0 & 1 & -1 & 1 \end{pmatrix}$$

$$(337) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 1 \\ 2 & -1 & 0 & 0 & 2 \\ 1 & 0 & 0 & -1 & 2 \\ 2 & -1 & 1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(338) \quad \begin{pmatrix} 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 2 & -1 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 1 & -1 & 1 \end{pmatrix}$$

$$(339) \quad \begin{pmatrix} 2 & -1 & 2 & -1 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(340) \quad \begin{pmatrix} 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 2 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 1 & -1 & 1 \end{pmatrix}$$

(341)
$$\begin{pmatrix} 1 & -1 & 1 & -1 & 3 \\ 1 & 0 & 0 & -1 & 2 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

(342)
$$\begin{pmatrix} 0 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

(343)
$$\begin{pmatrix} 1 & -1 & 1 & -1 & 3 \\ 0 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

(344)
$$\begin{pmatrix} 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & -1 & 1 & 0 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(345)
$$\begin{pmatrix} -1 & 1 & 0 & -2 & 2 \\ 0 & 1 & 0 & -2 & 2 \\ -1 & 1 & 0 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

(346)
$$\begin{pmatrix} -1 & 1 & 0 & -2 & 2 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ -1 & 1 & 0 & -1 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(347) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & -1 & 1 \\ -1 & 1 & 0 & -1 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(348) \quad \begin{pmatrix} -1 & 2 & -1 & -1 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 2 & -1 & -1 & 1 \\ -1 & 1 & 0 & -1 & 1 \\ -1 & 1 & 0 & 0 & 0 \end{pmatrix}$$

$$(349) \quad \begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 1 & 0 & -1 & 1 \\ -1 & 1 & 0 & 0 & 0 \end{pmatrix}$$

$$(350) \quad \begin{pmatrix} 0 & 0 & 1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 1 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(351) \quad \begin{pmatrix} -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & -1 & 0 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \end{pmatrix}$$

$$(352) \quad \begin{pmatrix} -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 1 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(353) \quad \begin{pmatrix} -2 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ -1 & 1 & 0 & -1 & 1 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(354) \quad \begin{pmatrix} 2 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(355) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(356) \quad \begin{pmatrix} -1 & 0 & -1 & 1 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(357) \quad \begin{pmatrix} 2 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(358) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 1 & 0 \end{pmatrix}$$

$$(359) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 2 \\ 2 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 1 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(360) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 2 \\ 0 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 1 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(361) \quad \begin{pmatrix} -1 & 0 & -1 & 1 & 0 \\ 0 & -1 & 0 & 1 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(362) \quad \begin{pmatrix} -2 & 1 & -1 & 0 & 0 \\ -1 & 0 & -1 & 1 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(363) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & 0 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \end{pmatrix}$$

$$(364) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 1 \\ 0 & -1 & 0 & 2 & 0 \\ 1 & -1 & 0 & 1 & 1 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(365) \quad \begin{pmatrix} -1 & -1 & 0 & 2 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ 0 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(366) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & -1 & 1 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \end{pmatrix}$$

$$(367) \quad \begin{pmatrix} -1 & 0 & -1 & 1 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(368) \quad \begin{pmatrix} -1 & 2 & -1 & 0 & -1 \\ -1 & 1 & -1 & 1 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \end{pmatrix}$$

$$(369) \quad \begin{pmatrix} 2 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 2 & -1 & 0 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(370) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 1 \\ 2 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 2 & -1 & 1 & 0 & 1 \\ 2 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(371) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 1 & 1 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(372) \quad \begin{pmatrix} 2 & -1 & 2 & -1 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(373) \quad \begin{pmatrix} 2 & -1 & 0 & 0 & 1 \\ 2 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 1 & 0 \\ 2 & -1 & 1 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(374) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 1 \\ 2 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 1 \\ 2 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(375) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 2 \\ 1 & -1 & 1 & 0 & 1 \\ 2 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(376) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 2 & 0 \end{pmatrix}$$

$$(377) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 1 \\ 0 & -1 & 0 & 2 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(378) \quad \begin{pmatrix} 1 & -2 & 1 & 1 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(379) \quad \begin{pmatrix} 1 & -2 & 1 & 1 & 1 \\ 0 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(380) \quad \begin{pmatrix} 0 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(381) \quad \begin{pmatrix} 1 & -2 & 1 & 1 & 2 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 \end{pmatrix}$$

$$(382) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 2 \\ 1 & -2 & 1 & 1 & 2 \\ 1 & -1 & 0 & 1 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

(383) $\begin{pmatrix} 0 & -1 & 0 & 1 & 1 \\ 1 & -2 & 1 & 1 & 2 \\ 1 & -1 & 0 & 1 & 1 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

(384) $\begin{pmatrix} 1 & -2 & 1 & 1 & 1 \\ 1 & -2 & 1 & 1 & 2 \\ 0 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 \end{pmatrix}$

(385) $\begin{pmatrix} 1 & -1 & 0 & 0 & 2 \\ 1 & -2 & 1 & 1 & 2 \\ 0 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

(386) $\begin{pmatrix} 0 & -1 & 0 & 1 & 1 \\ 1 & -2 & 1 & 1 & 2 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

(387) $\begin{pmatrix} 0 & -1 & 0 & 1 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & -1 & 1 & 0 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(388) $\begin{pmatrix} 0 & 0 & 1 & 0 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(389)
$$\begin{pmatrix} 0 & -1 & 0 & 1 & 1 \\ -1 & -1 & 0 & 2 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(390)
$$\begin{pmatrix} -1 & 0 & -1 & 1 & 0 \\ -1 & -1 & 0 & 2 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ -1 & 0 & 0 & 1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(391)
$$\begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & -1 & 0 & 2 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(392)
$$\begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & -1 & 1 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(393)
$$\begin{pmatrix} -1 & -1 & 0 & 3 & -1 \\ -1 & -1 & 0 & 2 & 0 \\ 0 & -1 & 0 & 2 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ 0 & -1 & 1 & 1 & 0 \end{pmatrix}$$

(394)
$$\begin{pmatrix} 0 & -1 & 0 & 1 & 1 \\ -1 & -1 & 0 & 2 & 0 \\ 0 & -1 & 0 & 2 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(395) \quad \begin{pmatrix} -2 & 1 & -1 & 1 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ -2 & 1 & 0 & 1 & -1 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 0 & 0 & 1 & 0 \end{pmatrix}$$

$$(396) \quad \begin{pmatrix} -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ -2 & 1 & 0 & 1 & -1 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 1 & 0 & 0 & 0 \end{pmatrix}$$

$$(397) \quad \begin{pmatrix} -2 & 1 & -1 & 1 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & 0 & 1 & -1 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 0 & 0 & 1 & 0 \end{pmatrix}$$

$$(398) \quad \begin{pmatrix} -1 & 1 & 0 & 0 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & 0 & 1 & -1 \\ -2 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \end{pmatrix}$$

$$(399) \quad \begin{pmatrix} -2 & 1 & -1 & 1 & -1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 0 & 0 & 1 & 0 \end{pmatrix}$$

$$(400) \quad \begin{pmatrix} -1 & 0 & -1 & 1 & 0 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(401) \quad \begin{pmatrix} -1 & 0 & -1 & 1 & 0 \\ -2 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ -1 & 0 & 0 & 1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(402) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(403) \quad \begin{pmatrix} -2 & 1 & 0 & 0 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & 0 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(404) \quad \begin{pmatrix} 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & -1 & 0 & -1 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(405) \quad \begin{pmatrix} 0 & 1 & -1 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(406) \quad \begin{pmatrix} -1 & 2 & -1 & -1 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(407) \quad \begin{pmatrix} 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 1 & -1 & 0 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(408) \quad \begin{pmatrix} -1 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(409) \quad \begin{pmatrix} -1 & 2 & -1 & -1 & 0 \\ -1 & 2 & -1 & 0 & -1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(410) \quad \begin{pmatrix} -1 & 1 & 0 & 0 & -1 \\ -1 & 2 & -1 & 0 & -1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(411) \quad \begin{pmatrix} 0 & 0 & -1 & 1 & -1 \\ 0 & 1 & -1 & 0 & -1 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(412) \quad \begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(413) \quad \begin{pmatrix} 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(414) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(415) \quad \begin{pmatrix} 0 & 0 & 0 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & -1 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(416) \quad \begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 1 & -1 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(417) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ -1 & 1 & -1 & 1 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(418) \quad \begin{pmatrix} 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$
(419) \quad
\begin{pmatrix}
-1 & 1 & 0 & 1 & -3 \\
0 & 0 & 0 & 1 & -1 \\
0 & 0 & 0 & 1 & -2 \\
0 & 1 & 0 & 0 & -2 \\
0 & 1 & -1 & 0 & -1
\end{pmatrix}
$$

$$
(420) \quad
\begin{pmatrix}
-1 & 1 & 0 & 1 & -3 \\
-1 & 1 & 0 & 0 & -1 \\
0 & 0 & 0 & 1 & -1 \\
0 & 1 & 0 & 0 & -2 \\
0 & 1 & -1 & 0 & -1
\end{pmatrix}
$$

$$
(421) \quad
\begin{pmatrix}
-1 & 1 & -1 & 0 & 0 \\
-1 & 1 & -1 & 1 & -1 \\
-1 & 2 & -1 & 0 & -1 \\
0 & 1 & -1 & 0 & 0 \\
0 & 1 & -1 & 0 & -1
\end{pmatrix}
$$

$$
(422) \quad
\begin{pmatrix}
-1 & 1 & 0 & 0 & -1 \\
-1 & 1 & -1 & 1 & -1 \\
-1 & 2 & -1 & 0 & -1 \\
0 & 0 & 0 & 1 & -1 \\
0 & 1 & -1 & 0 & -1
\end{pmatrix}
$$

$$
(423) \quad
\begin{pmatrix}
-1 & 2 & -1 & -1 & 0 \\
-1 & 2 & -1 & 0 & -1 \\
-1 & 1 & 0 & 0 & 0 \\
0 & 1 & 0 & -1 & 0 \\
0 & 1 & -1 & 0 & 0
\end{pmatrix}
$$

$$
(424) \quad
\begin{pmatrix}
1 & 0 & 0 & 0 & 0 \\
0 & 0 & 1 & 0 & -1 \\
0 & 1 & 0 & 0 & -2 \\
0 & 1 & 0 & -1 & -1 \\
0 & 0 & 0 & 0 & -1
\end{pmatrix}
$$

$$(425) \quad \begin{pmatrix} -1 & 2 & 0 & -1 & -2 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$$

$$(426) \quad \begin{pmatrix} -1 & 2 & 0 & -1 & -2 \\ -1 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$$

$$(427) \quad \begin{pmatrix} -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(428) \quad \begin{pmatrix} -1 & 1 & 0 & 1 & -3 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$$

$$(429) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & 0 & 1 & -3 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$$

$$(430) \quad \begin{pmatrix} -1 & 1 & 0 & 1 & -3 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$$

$$(431) \quad \begin{pmatrix} 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 \\ 1 & 0 & 1 & -1 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(432) \quad \begin{pmatrix} 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 1 & 0 & 1 & -1 & 0 \\ 0 & 0 & 1 & 0 & -1 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(433) \quad \begin{pmatrix} 0 & 1 & 0 & -1 & 0 \\ 1 & 1 & 0 & -2 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 1 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(434) \quad \begin{pmatrix} 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 \\ 1 & 0 & 1 & -1 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(435) \quad \begin{pmatrix} 0 & 0 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$$

$$(436) \quad \begin{pmatrix} 0 & 0 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 0 & 0 & 1 & 0 & -1 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(437) \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(438) \begin{pmatrix} -1 & 2 & 0 & -1 & -2 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$$

$$(439) \begin{pmatrix} -2 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & 0 & -1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$$

$$(440) \begin{pmatrix} 1 & -1 & 0 & 2 & -2 \\ 1 & 0 & 0 & 0 & 0 \\ 1 & -1 & 1 & 1 & -1 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(441) \begin{pmatrix} 0 & -1 & 1 & 1 & -1 \\ 0 & 0 & 1 & 0 & -1 \\ 1 & -1 & 1 & 1 & -1 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(442) \begin{pmatrix} 0 & 0 & 0 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \\ 0 & -1 & 1 & 1 & -1 \\ 0 & 0 & 0 & 1 & -2 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(443) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$$

$$(444) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \\ 1 & -1 & 1 & 1 & -1 \\ 2 & -1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(445) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 \\ 1 & -1 & 1 & 1 & -1 \\ 2 & -1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(446) \quad \begin{pmatrix} 0 & 0 & 1 & 0 & -1 \\ 1 & -1 & 1 & 1 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(447) \quad \begin{pmatrix} 0 & 0 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 1 & -1 \\ 0 & 0 & 1 & 0 & -1 \\ 0 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(448) \quad \begin{pmatrix} 0 & 0 & 1 & 0 & 0 \\ -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(449) \quad \begin{pmatrix} -1 & 1 & 0 & 1 & -3 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$$

$$(450) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ -1 & 1 & 0 & 1 & -3 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(451) \quad \begin{pmatrix} -2 & 1 & 0 & 0 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$$

$$(452) \quad \begin{pmatrix} 0 & 0 & 1 & 0 & 0 \\ -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & 0 & 0 & -1 \\ 0 & 0 & 1 & 0 & -1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(453) \quad \begin{pmatrix} -1 & 2 & -1 & -1 & 0 \\ -1 & 2 & -1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$$

$$(454) \quad \begin{pmatrix} -1 & 2 & -1 & -1 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$$

$$(455) \begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 1 & -1 \\ -1 & 2 & -1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & 0 \end{pmatrix}$$

$$(456) \begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 1 & -1 \\ -2 & 1 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & 0 \end{pmatrix}$$

$$(457) \begin{pmatrix} -2 & 1 & -1 & 2 & -2 \\ -1 & 1 & -1 & 1 & -1 \\ -2 & 1 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(458) \begin{pmatrix} -2 & 1 & -1 & 2 & -2 \\ -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(459) \begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(460) \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(461) \quad \begin{pmatrix} -1 & 0 & -1 & 1 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(462) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 2 & -1 \\ 1 & -1 & 0 & 2 & -2 \\ 0 & 0 & -1 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(463) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 2 & -1 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(464) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ 1 & -1 & 0 & 2 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(465) \quad \begin{pmatrix} -1 & 0 & -1 & 2 & -1 \\ 0 & -1 & 0 & 2 & -1 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(466) \quad \begin{pmatrix} -1 & 0 & -1 & 2 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 1 & -1 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(467) \quad \begin{pmatrix} -2 & 1 & -1 & 2 & -2 \\ -1 & 0 & -1 & 2 & -1 \\ -1 & 1 & -1 & 1 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(468) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & 0 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 2 & -1 \\ 1 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \end{pmatrix}$$

$$(469) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 2 & 0 \\ 1 & -1 & 0 & 2 & -1 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(470) \quad \begin{pmatrix} -1 & -1 & 0 & 3 & -1 \\ -1 & 0 & 0 & 1 & 0 \\ 0 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(471) \quad \begin{pmatrix} -1 & 0 & -1 & 2 & -1 \\ -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & -1 & 1 & -1 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(472) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \\ 1 & -1 & 1 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(473) \quad \begin{pmatrix} 1 & -2 & 1 & 3 & -2 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 2 & -1 \\ 1 & -1 & 0 & 2 & -2 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(474) \quad \begin{pmatrix} 1 & -2 & 1 & 3 & -2 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 2 & -1 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(475) \quad \begin{pmatrix} 1 & -2 & 1 & 3 & -2 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(476) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ 1 & -2 & 1 & 3 & -2 \\ 1 & -1 & 0 & 2 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \end{pmatrix}$$

$$(477) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ 1 & -2 & 1 & 3 & -2 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 2 & -1 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(478) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(479) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 2 & -1 & 0 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(480) \quad \begin{pmatrix} 1 & -2 & 1 & 2 & -1 \\ 1 & -1 & 0 & 1 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(481) \quad \begin{pmatrix} 1 & -2 & 1 & 2 & -1 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(482) \quad \begin{pmatrix} 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(483) \quad \begin{pmatrix} 1 & -2 & 1 & 2 & -1 \\ 1 & -2 & 1 & 3 & -2 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(484) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ 1 & -2 & 1 & 3 & -2 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & -1 & 1 & 1 & -1 \end{pmatrix}$$

(485)
$$\begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & -1 & 1 & 1 & -1 \end{pmatrix}$$

(486)
$$\begin{pmatrix} 0 & -1 & 0 & 2 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 2 & -1 \\ 1 & -1 & 0 & 2 & 0 \end{pmatrix}$$

(487)
$$\begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 2 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 2 & -1 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

(488)
$$\begin{pmatrix} -1 & -1 & 0 & 2 & 0 \\ -1 & -1 & 0 & 3 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & 0 \\ 0 & -1 & 1 & 1 & 0 \end{pmatrix}$$

(489)
$$\begin{pmatrix} -1 & 0 & -1 & 2 & -1 \\ -1 & -1 & 0 & 3 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

(490)
$$\begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ -1 & -1 & 0 & 3 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(491) \begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ -1 & -1 & 0 & 3 & -1 \\ 0 & -1 & 0 & 2 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(492) \begin{pmatrix} -2 & 1 & -1 & 2 & -2 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 1 & -1 \\ -2 & 1 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & 0 \end{pmatrix}$$

$$(493) \begin{pmatrix} -1 & 0 & -1 & 2 & -1 \\ -2 & 1 & -1 & 2 & -2 \\ -1 & 1 & -1 & 1 & -1 \\ -1 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(494) \begin{pmatrix} -2 & 1 & -1 & 1 & -1 \\ -2 & 1 & -1 & 2 & -2 \\ -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & 0 \end{pmatrix}$$

$$(495) \begin{pmatrix} -1 & 0 & -1 & 2 & -1 \\ -2 & 1 & -1 & 2 & -2 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(496) \begin{pmatrix} 1 & 0 & 0 & -1 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(497) \quad \begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(498) \quad \begin{pmatrix} 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(499) \quad \begin{pmatrix} 1 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 1 & 1 & 0 & -2 & 0 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(500) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ 1 & 1 & 0 & -2 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(501) \quad \begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -1 & 2 & -1 & -1 & 0 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(502) \quad \begin{pmatrix} -1 & 2 & -1 & -2 & 1 \\ -1 & 2 & -1 & -1 & 0 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(503) \quad \begin{pmatrix} 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 1 \\ 1 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(504) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 2 \\ 1 & 1 & 0 & -2 & 1 \\ 1 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$$

$$(505) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 1 \\ 0 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 \end{pmatrix}$$

$$(506) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 1 \\ -1 & 2 & -1 & -1 & 0 \\ -1 & 2 & -1 & -1 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$$

$$(507) \quad \begin{pmatrix} 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 1 \\ 1 & 1 & 0 & -2 & 2 \\ 1 & 0 & 1 & -1 & 1 \end{pmatrix}$$

$$(508) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 2 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 1 & 0 & -2 & 1 \\ 1 & 1 & 0 & -2 & 2 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$$

(509) $\begin{pmatrix} 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 1 \\ 1 & 1 & 0 & -2 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(510) $\begin{pmatrix} 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 1 \\ 1 & 0 & 1 & -1 & 1 \\ 1 & 0 & 1 & -1 & 0 \end{pmatrix}$

(511) $\begin{pmatrix} 1 & 1 & 1 & -3 & 1 \\ 1 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 1 & 1 & 0 & -2 & 0 \\ 1 & 0 & 1 & -1 & 0 \end{pmatrix}$

(512) $\begin{pmatrix} 1 & 1 & 1 & -3 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 1 & 0 & 1 & -1 & 0 \end{pmatrix}$

(513) $\begin{pmatrix} 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$

(514) $\begin{pmatrix} 2 & -1 & 2 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 1 & -1 & 1 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \end{pmatrix}$

(515)
$$\begin{pmatrix} 2 & -1 & 2 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \end{pmatrix}$$

(516)
$$\begin{pmatrix} 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 2 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 1 & -1 & 1 \\ 1 & 0 & 1 & -1 & 0 \end{pmatrix}$$

(517)
$$\begin{pmatrix} 2 & -1 & 2 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \end{pmatrix}$$

(518)
$$\begin{pmatrix} 1 & 1 & 1 & -3 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

(519)
$$\begin{pmatrix} 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

(520)
$$\begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(521) \quad \begin{pmatrix} -1 & 2 & 0 & -3 & 2 \\ 0 & 1 & 0 & -2 & 2 \\ -1 & 1 & 0 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$$

$$(522) \quad \begin{pmatrix} -1 & 2 & 0 & -3 & 2 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$$

$$(523) \quad \begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -1 & 2 & -1 & -1 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & 1 \\ -1 & 1 & 0 & 0 & 0 \end{pmatrix}$$

$$(524) \quad \begin{pmatrix} -1 & 2 & -1 & -2 & 1 \\ -1 & 2 & -1 & -1 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$$

$$(525) \quad \begin{pmatrix} 2 & -1 & 0 & 0 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(526) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

(527) $\begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$

(528) $\begin{pmatrix} 2 & -1 & 0 & 0 & 2 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 2 \\ 0 & 0 & -1 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(529) $\begin{pmatrix} 0 & 0 & 0 & -1 & 2 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 2 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 1 & -1 & -1 & 1 \end{pmatrix}$

(530) $\begin{pmatrix} 1 & -1 & 0 & 0 & 2 \\ 2 & -1 & 0 & 0 & 2 \\ 1 & 0 & 0 & -1 & 2 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

(531) $\begin{pmatrix} 1 & -1 & 0 & 0 & 2 \\ 0 & 0 & 0 & -1 & 2 \\ 1 & 0 & 0 & -1 & 2 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

(532) $\begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ 0 & 0 & 0 & -1 & 2 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

$$(533) \quad \begin{pmatrix} -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(534) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 2 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 2 \\ 1 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \end{pmatrix}$$

$$(535) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 2 \\ 0 & 1 & 0 & -2 & 2 \\ 1 & 0 & 0 & -1 & 2 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(536) \quad \begin{pmatrix} -1 & 1 & 0 & -2 & 2 \\ -1 & 1 & 0 & -1 & 1 \\ 0 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(537) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 1 \\ -1 & 2 & -1 & -1 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 2 & -1 & -1 & 1 \\ 0 & 1 & -1 & -1 & 1 \end{pmatrix}$$

$$(538) \quad \begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & 0 & -1 & 1 \\ -1 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(539) \quad \begin{pmatrix} -1 & 2 & -1 & 0 & -1 \\ -1 & 2 & -1 & -1 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \end{pmatrix}$$

$$(540) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 2 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 2 \\ 1 & 1 & 0 & -2 & 2 \end{pmatrix}$$

$$(541) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 2 \\ 0 & 1 & 0 & -2 & 2 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 2 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(542) \quad \begin{pmatrix} 2 & -1 & 0 & 0 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 0 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(543) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 1 \\ 2 & -1 & 0 & 0 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & 0 & 1 \\ 2 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(544) \quad \begin{pmatrix} 2 & -1 & 2 & -1 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 1 & -1 & 1 \\ 2 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(545) \quad \begin{pmatrix} 2 & -1 & 0 & 0 & 1 \\ 2 & -1 & 0 & 0 & 2 \\ 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(546) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 1 \\ 2 & -1 & 0 & 0 & 2 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 2 \\ 2 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(547) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 2 \\ 1 & -1 & 1 & 0 & 1 \\ 2 & -1 & 0 & 0 & 2 \\ 1 & 0 & 0 & -1 & 2 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(548) \quad \begin{pmatrix} 2 & -1 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 2 & -1 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \end{pmatrix}$$

$$(549) \quad \begin{pmatrix} 2 & -1 & 1 & -1 & 1 \\ 2 & -1 & 2 & -1 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(550) \quad \begin{pmatrix} 1 & -1 & 1 & -1 & 3 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 2 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \end{pmatrix}$$

$$(551) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 2 \\ 1 & -1 & 1 & -1 & 3 \\ 1 & 0 & 0 & -1 & 2 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(552) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 2 \\ 1 & -1 & 1 & -1 & 3 \\ 1 & 0 & 0 & -1 & 2 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(553) \quad \begin{pmatrix} 1 & -1 & 1 & -1 & 2 \\ 0 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(554) \quad \begin{pmatrix} 0 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(555) \quad \begin{pmatrix} 1 & -1 & 1 & -1 & 2 \\ 1 & -1 & 1 & -1 & 3 \\ 0 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \end{pmatrix}$$

$$(556) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 2 \\ 1 & -1 & 1 & -1 & 3 \\ 0 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(557) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 2 \\ 1 & -1 & 1 & -1 & 3 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(558) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 2 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & -1 & 1 & 0 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(559) \quad \begin{pmatrix} 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(560) \quad \begin{pmatrix} -1 & 2 & 0 & -3 & 2 \\ -1 & 1 & 0 & -2 & 2 \\ 0 & 1 & 0 & -2 & 2 \\ -1 & 1 & 0 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \end{pmatrix}$$

$$(561) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 2 \\ -1 & 1 & 0 & -2 & 2 \\ 0 & 1 & 0 & -2 & 2 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(562) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 2 \\ -1 & 1 & 0 & -2 & 2 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(563) $\begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & 0 & -2 & 2 \\ 0 & 0 & 0 & 0 & 1 \\ -1 & 1 & 0 & -1 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(564) $\begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -2 & 2 \\ 0 & 0 & 1 & -1 & 1 \\ -1 & 1 & 0 & -1 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(565) $\begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(566) $\begin{pmatrix} -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 1 & 0 & -1 & 1 \end{pmatrix}$

(567) $\begin{pmatrix} -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 1 & 0 & 0 & 0 \end{pmatrix}$

(568) $\begin{pmatrix} -2 & 1 & 0 & 0 & -1 \\ 0 & 0 & 1 & 0 & 0 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$

$$(569) \quad \begin{pmatrix} -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 1 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(570) \quad \begin{pmatrix} -2 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & -1 & 0 \\ -2 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \end{pmatrix}$$

$$(571) \quad \begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(572) \quad \begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ -2 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ -1 & 1 & 0 & -1 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(573) \quad \begin{pmatrix} 2 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 2 & -1 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(574) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 2 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(575) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 0 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(576) \quad \begin{pmatrix} -1 & 0 & -1 & 1 & 0 \\ 0 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(577) \quad \begin{pmatrix} -2 & 1 & -1 & 0 & 0 \\ -1 & 0 & -1 & 1 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(578) \quad \begin{pmatrix} 2 & -1 & 0 & 0 & 1 \\ 2 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(579) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 2 \\ 2 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 1 \\ 0 & 0 & -1 & 0 & 1 \end{pmatrix}$$

$$(580) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 2 \\ 0 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 1 \\ 0 & 0 & -1 & 0 & 1 \end{pmatrix}$$

$$(581) \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 1 & 0 \end{pmatrix}$$

$$(582) \begin{pmatrix} 0 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 0 & 2 \\ 0 & -1 & 0 & 1 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(583) \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ -1 & 0 & -1 & 1 & 0 \\ 0 & -1 & 0 & 1 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 1 & 0 \end{pmatrix}$$

$$(584) \begin{pmatrix} 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & -1 & 0 & 1 & 1 \\ -1 & 0 & -1 & 1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(585) \begin{pmatrix} 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ -1 & 0 & -1 & 1 & 0 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(586) \begin{pmatrix} 0 & -1 & 0 & 1 & 1 \\ 0 & -1 & 0 & 2 & 0 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 1 \\ 0 & 0 & -1 & 1 & 0 \end{pmatrix}$$

$$(587) \quad \begin{pmatrix} -1 & -1 & 0 & 2 & 0 \\ 0 & -1 & 0 & 1 & 1 \\ 0 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(588) \quad \begin{pmatrix} -1 & -1 & 0 & 3 & -1 \\ -1 & -1 & 0 & 2 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ 0 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \end{pmatrix}$$

$$(589) \quad \begin{pmatrix} -1 & 0 & -1 & 1 & 0 \\ -1 & -1 & 0 & 2 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(590) \quad \begin{pmatrix} -1 & 0 & -1 & 2 & -1 \\ -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & -1 & 1 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 1 & 0 \end{pmatrix}$$

$$(591) \quad \begin{pmatrix} -1 & 0 & -1 & 2 & -1 \\ -1 & 0 & -1 & 1 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 1 & 0 \end{pmatrix}$$

$$(592) \quad \begin{pmatrix} 3 & -2 & 1 & 0 & 1 \\ 2 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 2 & -1 & 0 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(593) \quad \begin{pmatrix} 3 & -2 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 2 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 2 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(594) \quad \begin{pmatrix} 3 & -2 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(595) \quad \begin{pmatrix} 2 & -1 & 1 & -1 & 1 \\ 2 & -1 & 2 & -1 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(596) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 1 \\ 2 & -1 & 0 & 0 & 1 \\ 2 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 1 & 0 \\ 2 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(597) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 2 \\ 1 & -1 & 1 & 0 & 1 \\ 2 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 1 \end{pmatrix}$$

$$(598) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 1 \\ 0 & -1 & 0 & 2 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 1 \end{pmatrix}$$

$$(599) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 1 & -2 & 1 & 1 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(600) \quad \begin{pmatrix} 1 & -2 & 1 & 1 & 0 \\ 1 & -2 & 1 & 1 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(601) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 1 & -2 & 1 & 1 & 1 \\ 0 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(602) \quad \begin{pmatrix} 1 & -2 & 1 & 1 & 0 \\ 1 & -2 & 1 & 1 & 1 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(603) \quad \begin{pmatrix} 1 & -2 & 1 & 1 & 0 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(604) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 2 \\ 1 & -2 & 1 & 1 & 2 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 1 \\ 1 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(605) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 1 \\ 1 & -2 & 1 & 1 & 2 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 1 \\ 0 & -1 & 1 & 1 & 0 \end{pmatrix}$$

$$(606) \quad \begin{pmatrix} 1 & -2 & 1 & 1 & 1 \\ 1 & -2 & 1 & 1 & 2 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 \end{pmatrix}$$

$$(607) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & -2 & 1 & 1 & 2 \\ 1 & -1 & 0 & 1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(608) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 2 \\ 1 & -2 & 1 & 1 & 1 \\ 1 & -2 & 1 & 1 & 2 \\ 0 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(609) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 1 \\ 1 & -2 & 1 & 1 & 1 \\ 1 & -2 & 1 & 1 & 2 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 \end{pmatrix}$$

$$(610) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & -2 & 1 & 1 & 2 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

(611)
$$\begin{pmatrix} 0 & -1 & 0 & 0 & 2 \\ 0 & -1 & 0 & 1 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & -1 & 1 & 0 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(612)
$$\begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & 1 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & -1 & 1 & 0 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(613)
$$\begin{pmatrix} 0 & 0 & 1 & 0 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & -1 & 1 & 1 & -1 \\ 0 & -1 & 1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(614)
$$\begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(615)
$$\begin{pmatrix} -1 & 0 & -1 & 1 & 0 \\ 0 & -1 & 0 & 1 & 1 \\ -1 & -1 & 0 & 2 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(616)
$$\begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & 1 \\ -1 & -1 & 0 & 2 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(617)
$$\begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & -1 & 1 & 0 \\ -1 & -1 & 0 & 2 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(618)
$$\begin{pmatrix} -1 & -1 & 0 & 2 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & -1 & 0 & 2 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(619)
$$\begin{pmatrix} -1 & -1 & 0 & 2 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & -1 & 1 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(620)
$$\begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ -1 & -1 & 0 & 3 & -1 \\ -1 & -1 & 0 & 2 & 0 \\ 0 & -1 & 0 & 2 & 0 \\ 0 & -1 & 1 & 1 & 0 \end{pmatrix}$$

(621)
$$\begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & 1 \\ -1 & -1 & 0 & 2 & 0 \\ 0 & -1 & 0 & 2 & 0 \\ 0 & -1 & 1 & 1 & 0 \end{pmatrix}$$

(622)
$$\begin{pmatrix} -1 & 1 & 0 & 0 & -1 \\ -2 & 1 & -1 & 1 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ -2 & 1 & 0 & 1 & -1 \\ -2 & 1 & 0 & 0 & 0 \end{pmatrix}$$

$$(623) \quad \begin{pmatrix} -1 & 1 & 0 & 0 & -1 \\ -2 & 1 & -1 & 1 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & 0 & 1 & -1 \\ -2 & 1 & 0 & 0 & 0 \end{pmatrix}$$

$$(624) \quad \begin{pmatrix} -2 & 1 & -1 & 0 & 0 \\ -2 & 1 & -1 & 1 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 0 & 0 & 1 & 0 \end{pmatrix}$$

$$(625) \quad \begin{pmatrix} -2 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \end{pmatrix}$$

$$(626) \quad \begin{pmatrix} -3 & 2 & -1 & 0 & -1 \\ -2 & 1 & -1 & 1 & -1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -2 & 1 & 0 & 0 & 0 \end{pmatrix}$$

$$(627) \quad \begin{pmatrix} -1 & 0 & -1 & 1 & 0 \\ -2 & 1 & -1 & 1 & -1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 0 & 0 & 1 & 0 \end{pmatrix}$$

$$(628) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & -1 & 1 & 0 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(629)
$$\begin{pmatrix} -2 & 1 & 0 & 0 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & -1 & 0 & 0 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(630)
$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(631)
$$\begin{pmatrix} -1 & 2 & -1 & -1 & -1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

(632)
$$\begin{pmatrix} 0 & 1 & 0 & -1 & 0 \\ 1 & 1 & 0 & -2 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

(633)
$$\begin{pmatrix} 0 & 1 & -1 & 0 & -1 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(634)
$$\begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

(635)
$$\begin{pmatrix} -1 & 2 & -1 & -1 & -1 \\ -1 & 2 & -1 & -1 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

(636)
$$\begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -1 & 2 & -1 & -1 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

(637)
$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(638)
$$\begin{pmatrix} -1 & 2 & 0 & -1 & -2 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

(639)
$$\begin{pmatrix} -1 & 2 & 0 & -1 & -2 \\ -1 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

(640)
$$\begin{pmatrix} -1 & 1 & 0 & 0 & -1 \\ -1 & 2 & -1 & -1 & 0 \\ -1 & 2 & -1 & 0 & -1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(641) \quad \begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -1 & 2 & -1 & -1 & 0 \\ -1 & 2 & -1 & 0 & -1 \\ 0 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(642) \quad \begin{pmatrix} -1 & 1 & -1 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(643) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(644) \quad \begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & -1 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(645) \quad \begin{pmatrix} 1 & -1 & 0 & 2 & -2 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(646) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & -3 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(647) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ -1 & 1 & -1 & 1 & -3 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(648) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & -1 & 1 & -2 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(649) \quad \begin{pmatrix} 0 & 0 & 0 & 1 & -1 \\ 0 & -1 & 0 & 2 & -2 \\ 1 & -1 & 0 & 2 & -2 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(650) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(651) \quad \begin{pmatrix} -2 & 1 & -1 & 2 & -2 \\ -1 & 1 & -1 & 1 & -2 \\ -1 & 1 & -1 & 1 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(652) \quad \begin{pmatrix} -1 & 1 & 0 & 0 & -2 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(653) \quad \begin{pmatrix} -1 & 1 & 0 & 1 & -3 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(654) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ -1 & 1 & 0 & 1 & -3 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(655) \quad \begin{pmatrix} -1 & 1 & 0 & 1 & -3 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(656) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ -1 & 1 & 0 & 1 & -3 \\ -1 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(657) \quad \begin{pmatrix} -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 1 & -1 \\ -1 & 2 & -1 & 0 & -1 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(658) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & -1 & 1 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(659) \quad \begin{pmatrix} -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(660) \quad \begin{pmatrix} -1 & 2 & 0 & -1 & -2 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$$

$$(661) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 2 & 0 & -1 & -2 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$$

$$(662) \quad \begin{pmatrix} -1 & 2 & 0 & -1 & -2 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$$

$$(663) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -2 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(664) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & 0 & 1 & -3 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$$

$$
(665) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & 0 & 1 & -3 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & -2 \end{pmatrix}
$$

$$
(666) \quad \begin{pmatrix} 1 & 1 & 0 & -2 & 0 \\ 1 & 0 & 0 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}
$$

$$
(667) \quad \begin{pmatrix} 0 & 0 & 1 & 0 & -1 \\ 1 & 0 & 1 & -1 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 0 & 1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}
$$

$$
(668) \quad \begin{pmatrix} 0 & 1 & 0 & -1 & 0 \\ 1 & 1 & 0 & -2 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 1 & 0 & 1 & -1 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}
$$

$$
(669) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 0 & 1 & 0 & -1 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}
$$

$$
(670) \quad \begin{pmatrix} 1 & 0 & 0 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}
$$

(671) $\begin{pmatrix} 1 & -1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 \\ 1 & 0 & 1 & -1 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(672) $\begin{pmatrix} 0 & 0 & 1 & 0 & -1 \\ 1 & 0 & 1 & -1 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & 0 & 1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(673) $\begin{pmatrix} 0 & 0 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 \\ 0 & -1 & 1 & 0 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$

(674) $\begin{pmatrix} 0 & 0 & 1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & 0 & -1 \\ 0 & 0 & 1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(675) $\begin{pmatrix} -1 & 2 & 0 & -1 & -2 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$

(676) $\begin{pmatrix} -1 & 2 & -1 & -1 & -1 \\ -1 & 2 & 0 & -1 & -2 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$

(677)
$$\begin{pmatrix} -2 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$$

(678)
$$\begin{pmatrix} 0 & 0 & 1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -2 & 1 & 0 & 0 & -1 \\ 0 & 0 & 1 & 0 & -1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(679)
$$\begin{pmatrix} 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \\ 1 & 0 & 0 & 0 & 0 \\ 1 & -1 & 1 & 1 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(680)
$$\begin{pmatrix} 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \\ 1 & -1 & 1 & 1 & -1 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(681)
$$\begin{pmatrix} -1 & 0 & 0 & 1 & -2 \\ 0 & -1 & 1 & 1 & -1 \\ 0 & 0 & 1 & 0 & -1 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(682)
$$\begin{pmatrix} 0 & 0 & 0 & 1 & -1 \\ 0 & -1 & 0 & 2 & -2 \\ 1 & -1 & 0 & 2 & -2 \\ 0 & -1 & 1 & 1 & -1 \\ 0 & 0 & 0 & 1 & -2 \end{pmatrix}$$

$$(683) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & -2 \\ 0 & -1 & 1 & 1 & -1 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$$

$$(684) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & -1 & 1 & 1 & -1 \\ 0 & 0 & 0 & 1 & -2 \end{pmatrix}$$

$$(685) \quad \begin{pmatrix} 2 & -1 & 0 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(686) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 1 & 1 & -1 \\ 2 & -1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(687) \quad \begin{pmatrix} 0 & 0 & 1 & 0 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(688) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 1 & 1 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(689) \quad \begin{pmatrix} 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ 0 & -1 & 1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(690) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & -2 \\ 0 & 0 & 1 & 0 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(691) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ -1 & 1 & 0 & 1 & -3 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & -2 \end{pmatrix}$$

$$(692) \quad \begin{pmatrix} -2 & 1 & 0 & 0 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & 0 & 0 & -2 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$$

$$(693) \quad \begin{pmatrix} -2 & 1 & 0 & 0 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -2 \end{pmatrix}$$

$$(694) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & 0 & 0 & -1 \\ -2 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(695)
$$\begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -1 & 2 & -1 & -1 & 0 \\ -1 & 2 & -1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & 0 \end{pmatrix}$$

(696)
$$\begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -1 & 2 & -1 & -1 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & 0 \end{pmatrix}$$

(697)
$$\begin{pmatrix} -1 & 2 & -1 & -1 & -1 \\ -1 & 2 & -1 & -1 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$$

(698)
$$\begin{pmatrix} -2 & 1 & -1 & 2 & -2 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 1 & -1 \\ -2 & 1 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & -1 \end{pmatrix}$$

(699)
$$\begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ -2 & 1 & -1 & 2 & -2 \\ -1 & 1 & -1 & 1 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

(700)
$$\begin{pmatrix} -2 & 1 & -1 & 1 & -1 \\ -2 & 1 & -1 & 2 & -2 \\ -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & -1 \end{pmatrix}$$

(701) $\begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ -2 & 1 & -1 & 2 & -2 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$

(702) $\begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 2 & -1 & 0 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$

(703) $\begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$

(704) $\begin{pmatrix} -1 & 0 & -1 & 1 & 0 \\ 0 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$

(705) $\begin{pmatrix} -2 & 1 & -2 & 1 & -1 \\ -1 & 0 & -1 & 1 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$

(706) $\begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \\ 0 & 0 & -1 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(707) $\begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 2 & -1 \\ 1 & -1 & 0 & 2 & -2 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$

(708) $\begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 2 & -1 \\ 1 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$

(709) $\begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & -1 & 0 & 2 & -2 \\ 1 & -1 & 0 & 2 & -2 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$

(710) $\begin{pmatrix} -1 & -1 & -1 & 3 & -1 \\ -1 & 0 & -1 & 2 & -1 \\ 0 & -1 & 0 & 2 & -1 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$

(711) $\begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & -1 & 2 & -1 \\ 0 & -1 & 0 & 2 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$

(712) $\begin{pmatrix} -2 & 1 & -1 & 2 & -2 \\ -1 & 0 & -1 & 2 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$

(713)
$$\begin{pmatrix} -1 & 0 & -1 & 1 & 0 \\ -1 & 0 & -1 & 2 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

(714)
$$\begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & -1 & 2 & -2 \\ -1 & 0 & -1 & 2 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

(715)
$$\begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 2 & 0 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 2 & -1 \\ 0 & 0 & -1 & 1 & 0 \end{pmatrix}$$

(716)
$$\begin{pmatrix} -1 & -1 & 0 & 3 & -1 \\ 0 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

(717)
$$\begin{pmatrix} -1 & 0 & -1 & 2 & -1 \\ -1 & -1 & 0 & 3 & -1 \\ -1 & 0 & 0 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

(718)
$$\begin{pmatrix} 1 & -2 & 1 & 2 & -1 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

(719)
$$\begin{pmatrix} 1 & -2 & 1 & 2 & -1 \\ 1 & -2 & 1 & 3 & -2 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 2 & -2 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

(720)
$$\begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ 1 & -2 & 1 & 3 & -2 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 2 & -1 \\ 1 & -1 & 0 & 2 & -2 \end{pmatrix}$$

(721)
$$\begin{pmatrix} 1 & -2 & 1 & 2 & -1 \\ 1 & -2 & 1 & 3 & -2 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

(722)
$$\begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ 1 & -2 & 1 & 3 & -2 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 2 & -1 \end{pmatrix}$$

(723)
$$\begin{pmatrix} 1 & -2 & 1 & 2 & -1 \\ 1 & -2 & 1 & 3 & -2 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

(724)
$$\begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ 1 & -2 & 1 & 3 & -2 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \end{pmatrix}$$

$$(725) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 2 & -1 & 0 & 0 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 \\ 2 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(726) \quad \begin{pmatrix} 1 & -2 & 1 & 2 & -1 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(727) \quad \begin{pmatrix} 1 & -2 & 1 & 1 & 0 \\ 1 & -2 & 1 & 2 & -1 \\ 1 & -1 & 0 & 1 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(728) \quad \begin{pmatrix} 1 & -2 & 1 & 2 & -1 \\ 1 & -1 & 0 & 1 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(729) \quad \begin{pmatrix} 1 & -2 & 1 & 1 & 0 \\ 1 & -2 & 1 & 2 & -1 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(730) \quad \begin{pmatrix} 1 & -2 & 1 & 1 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 \end{pmatrix}$$

(731)
$$\begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ 1 & -2 & 1 & 2 & -1 \\ 1 & -2 & 1 & 3 & -2 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & -1 & 1 & 1 & -1 \end{pmatrix}$$

(732)
$$\begin{pmatrix} -1 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 2 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & -1 & 1 & 1 & -1 \end{pmatrix}$$

(733)
$$\begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & -1 & 1 & 1 & -1 \end{pmatrix}$$

(734)
$$\begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 2 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 2 & -1 \end{pmatrix}$$

(735)
$$\begin{pmatrix} -1 & 0 & -1 & 2 & -1 \\ -1 & -1 & 0 & 2 & 0 \\ -1 & -1 & 0 & 3 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & 0 \end{pmatrix}$$

(736)
$$\begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ -1 & -1 & 0 & 2 & 0 \\ -1 & -1 & 0 & 3 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ 0 & -1 & 1 & 1 & 0 \end{pmatrix}$$

$$(737) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ -1 & 0 & -1 & 2 & -1 \\ -1 & -1 & 0 & 3 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(738) \quad \begin{pmatrix} -1 & 0 & -1 & 2 & -1 \\ -2 & 1 & -1 & 2 & -2 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 1 & -1 \\ -1 & 0 & 0 & 1 & 0 \end{pmatrix}$$

$$(739) \quad \begin{pmatrix} -2 & 1 & -1 & 1 & -1 \\ -2 & 1 & -1 & 2 & -2 \\ -1 & 1 & -1 & 0 & 0 \\ -2 & 1 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & 0 \end{pmatrix}$$

$$(740) \quad \begin{pmatrix} -1 & 0 & -1 & 2 & -1 \\ -2 & 1 & -1 & 1 & -1 \\ -2 & 1 & -1 & 2 & -2 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & 0 \end{pmatrix}$$

$$(741) \quad \begin{pmatrix} 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(742) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(743) \quad \begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(744) \quad \begin{pmatrix} 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 1 \\ 1 & 1 & 0 & -2 & 0 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(745) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(746) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ 1 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 1 & 1 & 0 & -2 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(747) \quad \begin{pmatrix} -1 & 2 & -1 & -2 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(748) \quad \begin{pmatrix} -1 & 2 & -1 & -2 & 1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 2 & -1 & -1 & 0 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(749) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 2 & -1 & -2 & 1 \\ -1 & 2 & -1 & -1 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(750) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 2 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 1 \\ 1 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \end{pmatrix}$$

$$(751) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -2 & 2 \\ 1 & 1 & 0 & -2 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$$

$$(752) \quad \begin{pmatrix} -1 & 2 & 0 & -3 & 2 \\ -1 & 1 & 0 & -1 & 1 \\ 0 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$$

$$(753) \quad \begin{pmatrix} -1 & 2 & -1 & -2 & 1 \\ -1 & 1 & 0 & -1 & 1 \\ -1 & 2 & -1 & -1 & 0 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$$

$$(754) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 2 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 1 \\ 1 & 1 & 0 & -2 & 2 \end{pmatrix}$$

(755)
$$\begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -2 & 2 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$$

(756)
$$\begin{pmatrix} 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$$

(757)
$$\begin{pmatrix} 1 & 1 & 1 & -3 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 1 \\ 1 & 1 & 0 & -2 & 0 \\ 1 & 0 & 1 & -1 & 0 \end{pmatrix}$$

(758)
$$\begin{pmatrix} 1 & 1 & 1 & -3 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 1 \\ 1 & 0 & 1 & -1 & 0 \end{pmatrix}$$

(759)
$$\begin{pmatrix} 1 & 1 & 1 & -3 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 1 & 1 & 0 & -2 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

(760)
$$\begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ 1 & 1 & 1 & -3 & 1 \\ 1 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 1 & 1 & 0 & -2 & 0 \end{pmatrix}$$

(761) $\begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ 1 & 1 & 1 & -3 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$

(762) $\begin{pmatrix} 2 & -1 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$

(763) $\begin{pmatrix} 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 0 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$

(764) $\begin{pmatrix} 2 & -1 & 1 & -1 & 1 \\ 2 & -1 & 2 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \end{pmatrix}$

(765) $\begin{pmatrix} 2 & -1 & 1 & -1 & 1 \\ 2 & -1 & 2 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \end{pmatrix}$

(766) $\begin{pmatrix} 2 & -1 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 2 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 1 & -1 & 0 \end{pmatrix}$

(767) $\begin{pmatrix} 2 & -1 & 1 & -1 & 1 \\ 2 & -1 & 2 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \end{pmatrix}$

(768) $\begin{pmatrix} 1 & 0 & 1 & -2 & 1 \\ 1 & 1 & 1 & -3 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 1 & -1 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$

(769) $\begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ 1 & 1 & 1 & -3 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$

(770) $\begin{pmatrix} 1 & 0 & 1 & -2 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$

(771) $\begin{pmatrix} 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$

(772) $\begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ -1 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$

(773) $\begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ -1 & 2 & 0 & -3 & 2 \\ 0 & 1 & 0 & -2 & 2 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$

(774) $\begin{pmatrix} -1 & 1 & 0 & -2 & 2 \\ -1 & 2 & 0 & -3 & 2 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \end{pmatrix}$

(775) $\begin{pmatrix} -1 & 2 & -1 & -2 & 1 \\ -1 & 2 & 0 & -3 & 2 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$

(776) $\begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ -1 & 2 & 0 & -3 & 2 \\ -1 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$

(777) $\begin{pmatrix} -1 & 2 & -1 & -2 & 1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 2 & -1 & -1 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & 1 \end{pmatrix}$

(778) $\begin{pmatrix} 2 & -1 & 0 & 0 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$

$$(779) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 2 & -1 & 0 & 0 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(780) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(781) \quad \begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(782) \quad \begin{pmatrix} -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(783) \quad \begin{pmatrix} 2 & -1 & 0 & 0 & 1 \\ 2 & -1 & 0 & 0 & 2 \\ 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(784) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 2 \\ 2 & -1 & 0 & 0 & 2 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 2 \\ 0 & 0 & -1 & 0 & 1 \end{pmatrix}$$

$$(785) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 2 \\ 0 & 0 & 0 & -1 & 2 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 2 \\ 0 & 0 & -1 & 0 & 1 \end{pmatrix}$$

$$(786) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & -1 & 2 \\ 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 1 & -1 & -1 & 1 \end{pmatrix}$$

$$(787) \quad \begin{pmatrix} 0 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 0 & 2 \\ 0 & 0 & 0 & -1 & 2 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(788) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & -1 & -1 & 1 \\ 0 & 0 & 0 & -1 & 2 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 1 & -1 & -1 & 1 \end{pmatrix}$$

$$(789) \quad \begin{pmatrix} 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & 0 & -1 & 2 \\ -1 & 1 & -1 & -1 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(790) \quad \begin{pmatrix} 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ -1 & 1 & -1 & -1 & 1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(791) $\begin{pmatrix} 0 & 0 & 0 & -1 & 2 \\ 0 & 1 & 0 & -2 & 2 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 2 \\ 0 & 1 & -1 & -1 & 1 \end{pmatrix}$

(792) $\begin{pmatrix} -1 & 1 & 0 & -2 & 2 \\ 0 & 0 & 0 & -1 & 2 \\ 0 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

(793) $\begin{pmatrix} -1 & 2 & 0 & -3 & 2 \\ -1 & 1 & 0 & -2 & 2 \\ -1 & 1 & 0 & -1 & 1 \\ 0 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \end{pmatrix}$

(794) $\begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & 0 & -2 & 2 \\ -1 & 1 & 0 & -1 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$

(795) $\begin{pmatrix} -1 & 2 & -1 & -2 & 1 \\ -1 & 1 & 0 & -1 & 1 \\ -1 & 2 & -1 & -1 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & -1 & 1 \end{pmatrix}$

(796) $\begin{pmatrix} -1 & 2 & -1 & -2 & 1 \\ -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & 0 & -1 & 1 \\ -1 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & -1 & 1 \end{pmatrix}$

$$(797) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 2 \\ 0 & 1 & 0 & -2 & 2 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 2 \end{pmatrix}$$

$$(798) \quad \begin{pmatrix} 3 & -2 & 1 & 0 & 1 \\ 2 & -1 & 0 & 0 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 0 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(799) \quad \begin{pmatrix} 3 & -2 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 2 & -1 & 0 & 0 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(800) \quad \begin{pmatrix} 2 & -1 & 1 & -1 & 1 \\ 2 & -1 & 2 & -1 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(801) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 1 \\ 2 & -1 & 0 & 0 & 1 \\ 2 & -1 & 0 & 0 & 2 \\ 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(802) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 2 \\ 1 & -1 & 1 & 0 & 1 \\ 2 & -1 & 0 & 0 & 2 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 2 \end{pmatrix}$$

$$(803) \begin{pmatrix} 1 & -1 & 1 & -1 & 2 \\ 2 & -1 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \end{pmatrix}$$

$$(804) \begin{pmatrix} 1 & -1 & 1 & -1 & 2 \\ 2 & -1 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(805) \begin{pmatrix} 1 & -1 & 0 & 0 & 2 \\ 1 & -1 & 1 & -1 & 3 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 2 \\ 1 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(806) \begin{pmatrix} 0 & 0 & 0 & -1 & 2 \\ 1 & -1 & 1 & -1 & 3 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 2 \\ 0 & 0 & 1 & -1 & 1 \end{pmatrix}$$

$$(807) \begin{pmatrix} 1 & -1 & 1 & -1 & 2 \\ 1 & -1 & 1 & -1 & 3 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \end{pmatrix}$$

$$(808) \begin{pmatrix} 0 & 0 & 0 & -1 & 2 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & -1 & 1 & -1 & 3 \\ 1 & 0 & 0 & -1 & 2 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(809) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 1 & -1 & 2 \\ 0 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(810) \quad \begin{pmatrix} 1 & -1 & 1 & -1 & 1 \\ 1 & -1 & 1 & -1 & 2 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(811) \quad \begin{pmatrix} 1 & -1 & 1 & -1 & 1 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(812) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 2 \\ 1 & -1 & 1 & -1 & 2 \\ 1 & -1 & 1 & -1 & 3 \\ 0 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(813) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 2 \\ 1 & -1 & 1 & -1 & 2 \\ 1 & -1 & 1 & -1 & 3 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \end{pmatrix}$$

$$(814) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 2 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & -1 & 1 & -1 & 3 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(815) \quad \begin{pmatrix} 0 & -1 & 0 & 0 & 2 \\ 0 & 0 & 0 & -1 & 2 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & -1 & 1 & 0 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(816) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & -1 & 2 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & -1 & 1 & 0 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(817) \quad \begin{pmatrix} 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & -1 & 0 \\ 0 & -1 & 1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(818) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(819) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ -1 & 2 & 0 & -3 & 2 \\ -1 & 1 & 0 & -2 & 2 \\ 0 & 1 & 0 & -2 & 2 \\ 0 & 0 & 1 & -1 & 1 \end{pmatrix}$$

$$(820) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & -1 & 2 \\ -1 & 1 & 0 & -2 & 2 \\ 0 & 1 & 0 & -2 & 2 \\ 0 & 0 & 1 & -1 & 1 \end{pmatrix}$$

$$(821) \quad \begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ 0 & 0 & 0 & -1 & 2 \\ -1 & 1 & 0 & -2 & 2 \\ 0 & 0 & 0 & 0 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(822) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & -1 & 2 \\ -1 & 1 & 0 & -2 & 2 \\ 0 & 0 & 1 & -1 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(823) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & 0 & -2 & 2 \\ -1 & 1 & 0 & -1 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(824) \quad \begin{pmatrix} -1 & 1 & 0 & -2 & 1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -2 & 2 \\ 0 & 0 & 1 & -1 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(825) \quad \begin{pmatrix} -1 & 1 & 0 & -2 & 1 \\ -1 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(826) \quad \begin{pmatrix} -3 & 2 & -1 & 0 & -1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -2 & 1 & 0 & 0 & 0 \end{pmatrix}$$

$$(827) \quad \begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & 1 \end{pmatrix}$$

$$(828) \quad \begin{pmatrix} -3 & 2 & -1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -2 & 1 & 0 & 0 & 0 \end{pmatrix}$$

$$(829) \quad \begin{pmatrix} -2 & 1 & -1 & 0 & 0 \\ -2 & 1 & 0 & 0 & -1 \\ -2 & 1 & 0 & 0 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(830) \quad \begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(831) \quad \begin{pmatrix} -3 & 2 & -1 & 0 & -1 \\ -2 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & -1 & 0 \\ -2 & 1 & 0 & 0 & 0 \end{pmatrix}$$

$$(832) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 2 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 2 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(833) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 0 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(834) \quad \begin{pmatrix} 0 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 1 \\ 0 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(835) \quad \begin{pmatrix} 0 & 0 & -1 & 0 & 1 \\ 0 & -1 & 0 & 1 & 0 \\ -1 & 0 & -1 & 1 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(836) \quad \begin{pmatrix} -2 & 1 & -2 & 1 & -1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 0 & -1 & 1 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(837) \quad \begin{pmatrix} 0 & 0 & -1 & 0 & 1 \\ -1 & 0 & -1 & 1 & 0 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(838) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 2 \\ 2 & -1 & 0 & 0 & 1 \\ 2 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 0 & 1 \end{pmatrix}$$

$$(839) \begin{pmatrix} 1 & -2 & 0 & 1 & 2 \\ 1 & -1 & 0 & 0 & 2 \\ 0 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 0 & 1 \end{pmatrix}$$

$$(840) \begin{pmatrix} 1 & -2 & 0 & 1 & 2 \\ 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 0 & 1 \end{pmatrix}$$

$$(841) \begin{pmatrix} 1 & -2 & 0 & 1 & 2 \\ 0 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 0 & 2 \\ 0 & -1 & 0 & 1 & 1 \\ 0 & 0 & -1 & 0 & 1 \end{pmatrix}$$

$$(842) \begin{pmatrix} 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & -1 & 0 & 1 & 1 \\ 0 & -1 & 0 & 0 & 2 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(843) \begin{pmatrix} 0 & 0 & -1 & 0 & 1 \\ 0 & -1 & 0 & 1 & 1 \\ -1 & 0 & -1 & 1 & 0 \\ 0 & -1 & 0 & 1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(844) \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & 1 \\ 0 & -1 & 0 & 2 & 0 \\ 1 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \end{pmatrix}$$

$$(845) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ -1 & -1 & 0 & 2 & 0 \\ 0 & -1 & 0 & 1 & 1 \\ 0 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \end{pmatrix}$$

$$(846) \quad \begin{pmatrix} -1 & 0 & -1 & 1 & 0 \\ -1 & -1 & 0 & 2 & 0 \\ 0 & -1 & 0 & 1 & 1 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(847) \quad \begin{pmatrix} -1 & 0 & -1 & 2 & -1 \\ -1 & -1 & 0 & 3 & -1 \\ -1 & -1 & 0 & 2 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \end{pmatrix}$$

$$(848) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ -1 & -1 & 0 & 3 & -1 \\ -1 & -1 & 0 & 2 & 0 \\ 0 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \end{pmatrix}$$

$$(849) \quad \begin{pmatrix} -1 & 0 & -1 & 2 & -1 \\ -1 & 0 & -1 & 1 & 0 \\ -1 & -1 & 0 & 2 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \end{pmatrix}$$

$$(850) \quad \begin{pmatrix} -2 & 1 & -1 & 1 & -1 \\ -1 & 0 & -1 & 2 & -1 \\ -1 & 0 & -1 & 1 & 0 \\ -1 & 0 & 0 & 1 & 0 \\ -1 & 1 & -1 & 0 & 0 \end{pmatrix}$$

$$(851) \begin{pmatrix} 3 & -2 & 1 & 0 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 2 & -1 & 0 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(852) \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 3 & -2 & 1 & 0 & 1 \\ 2 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 2 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(853) \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 3 & -2 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 2 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 1 & 0 \end{pmatrix}$$

$$(854) \begin{pmatrix} 2 & -1 & 1 & -1 & 1 \\ 3 & -2 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(855) \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 3 & -2 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(856) \begin{pmatrix} 1 & -1 & 0 & 0 & 2 \\ 1 & -1 & 1 & 0 & 1 \\ 2 & -1 & 0 & 0 & 1 \\ 2 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 1 & 0 \end{pmatrix}$$

$$(857) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & 1 \\ 0 & -1 & 0 & 2 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 1 & 0 \end{pmatrix}$$

$$(858) \quad \begin{pmatrix} 1 & -2 & 1 & 1 & 0 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -2 & 1 & 1 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(859) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 1 & 1 & 0 \\ 1 & -2 & 1 & 1 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 0 & -1 & 1 & 1 & 0 \end{pmatrix}$$

$$(860) \quad \begin{pmatrix} 1 & -2 & 1 & 1 & 0 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -2 & 1 & 1 & 1 \\ 0 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(861) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 1 & 1 & 0 \\ 1 & -2 & 1 & 1 & 1 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 \end{pmatrix}$$

$$(862) \quad \begin{pmatrix} 1 & -2 & 1 & 0 & 1 \\ 1 & -2 & 1 & 1 & 0 \\ 0 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(863) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 1 & 1 & 0 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(864) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & -2 & 1 & 1 & 2 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 1 \end{pmatrix}$$

$$(865) \quad \begin{pmatrix} 1 & -2 & 1 & 1 & 1 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & -2 & 1 & 1 & 2 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(866) \quad \begin{pmatrix} 1 & -2 & 1 & 1 & 1 \\ 0 & -1 & 0 & 1 & 1 \\ 1 & -2 & 1 & 1 & 2 \\ 1 & -1 & 0 & 1 & 0 \\ 0 & -1 & 1 & 1 & 0 \end{pmatrix}$$

$$(867) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & -2 & 1 & 1 & 1 \\ 1 & -2 & 1 & 1 & 2 \\ 0 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(868) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & -2 & 1 & 1 & 1 \\ 0 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(869) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & 1 \\ 1 & -2 & 1 & 1 & 1 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 1 & 0 \end{pmatrix}$$

$$(870) \quad \begin{pmatrix} 0 & -1 & 0 & 0 & 2 \\ 0 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 0 & 2 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(871) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 0 & 2 \\ 0 & -1 & 0 & 1 & 1 \\ 0 & -1 & 1 & 0 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(872) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & -1 & 1 & 1 & -1 \\ 0 & -1 & 1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(873) \quad \begin{pmatrix} 0 & -1 & 0 & 0 & 1 \\ 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(874) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ -1 & 0 & -1 & 1 & 0 \\ 0 & -1 & 0 & 1 & 1 \\ -1 & -1 & 0 & 2 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(875) \begin{pmatrix} -1 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 1 & 0 \\ -1 & -1 & 0 & 2 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(876) \begin{pmatrix} -1 & -1 & 0 & 2 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & -1 & 1 & 0 \\ -1 & -1 & 0 & 2 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(877) \begin{pmatrix} -1 & -1 & 0 & 2 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & -1 & 0 & 2 & -2 \\ 0 & -1 & 1 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(878) \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ -1 & -1 & 0 & 2 & -1 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & -1 & 1 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(879) \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 2 & -1 \\ -1 & -1 & 0 & 2 & 0 \\ 0 & -1 & 0 & 2 & 0 \\ 0 & -1 & 1 & 1 & 0 \end{pmatrix}$$

$$(880) \begin{pmatrix} -3 & 2 & -1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -2 & 1 & -1 & 1 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ -2 & 1 & 0 & 0 & 0 \end{pmatrix}$$

$$(881) \begin{pmatrix} -3 & 2 & -1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -2 & 1 & -1 & 1 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & 0 & 0 & 0 \end{pmatrix}$$

$$(882) \begin{pmatrix} -3 & 2 & -1 & 0 & -1 \\ -2 & 1 & -1 & 0 & 0 \\ -2 & 1 & -1 & 1 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & 0 & 0 & 0 \end{pmatrix}$$

$$(883) \begin{pmatrix} -1 & 0 & -1 & 1 & 0 \\ -2 & 1 & -1 & 0 & 0 \\ -2 & 1 & -1 & 1 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & 0 \end{pmatrix}$$

$$(884) \begin{pmatrix} -3 & 2 & -1 & 0 & -1 \\ -2 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & 0 & 0 & 0 \end{pmatrix}$$

$$(885) \begin{pmatrix} -3 & 2 & -1 & 0 & -1 \\ -2 & 1 & -1 & 1 & -1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(886) \begin{pmatrix} -2 & 1 & -2 & 1 & -1 \\ -1 & 0 & -1 & 1 & 0 \\ -2 & 1 & -1 & 1 & -1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & 0 \end{pmatrix}$$

(887)
$$\begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & -1 & 1 & 0 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 0 & -1 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(888)
$$\begin{pmatrix} -2 & 1 & 0 & 0 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & -1 & 0 & 0 \\ -2 & 1 & -1 & 0 & -1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(889)
$$\begin{pmatrix} 1 & 1 & 0 & -2 & 0 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(890)
$$\begin{pmatrix} -1 & 2 & -1 & -1 & -2 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(891)
$$\begin{pmatrix} -1 & 2 & -1 & -1 & -1 \\ -1 & 2 & -1 & -1 & -2 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

(892)
$$\begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 2 & -1 & -1 & -1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(893) \quad \begin{pmatrix} 0 & 1 & 0 & -1 & 0 \\ 1 & 1 & 0 & -2 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(894) \quad \begin{pmatrix} -1 & 1 & -1 & 0 & -1 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(895) \quad \begin{pmatrix} 1 & 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(896) \quad \begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & -1 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(897) \quad \begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -1 & 2 & -1 & -1 & -1 \\ -1 & 2 & -1 & -1 & 0 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(898) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 2 & -1 & -1 & -1 \\ -1 & 2 & -1 & -1 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(899) \quad \begin{pmatrix} -1 & 1 & 0 & 0 & -2 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(900) \quad \begin{pmatrix} -1 & 2 & 0 & -1 & -2 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(901) \quad \begin{pmatrix} -1 & 2 & -1 & -1 & -1 \\ -1 & 2 & 0 & -1 & -2 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(902) \quad \begin{pmatrix} -1 & 2 & 0 & -1 & -2 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 1 & 0 & 0 & -2 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(903) \quad \begin{pmatrix} -1 & 2 & -1 & -1 & -1 \\ -1 & 2 & 0 & -1 & -2 \\ -1 & 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(904) \quad \begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 2 & -1 & -1 & 0 \\ -1 & 2 & -1 & 0 & -1 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

(905)
$$\begin{pmatrix} -1 & 2 & -1 & -1 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 2 & -1 & -1 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

(906)
$$\begin{pmatrix} -1 & 0 & -1 & 1 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(907)
$$\begin{pmatrix} 0 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(908)
$$\begin{pmatrix} 2 & -1 & 0 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(909)
$$\begin{pmatrix} -2 & 1 & -2 & 1 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

(910)
$$\begin{pmatrix} 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(911)
$$
\begin{pmatrix}
0 & -1 & 0 & 2 & -2 \\
1 & -1 & 0 & 2 & -2 \\
0 & 0 & -1 & 1 & -1 \\
0 & 0 & 0 & 1 & -2 \\
0 & 0 & 0 & 0 & -1
\end{pmatrix}
$$

(912)
$$
\begin{pmatrix}
-1 & 1 & -1 & 0 & -1 \\
-1 & 1 & -1 & 1 & -3 \\
0 & 1 & -1 & 0 & -1 \\
0 & 0 & -1 & 1 & -1 \\
0 & 0 & 0 & 0 & -1
\end{pmatrix}
$$

(913)
$$
\begin{pmatrix}
-1 & 0 & 0 & 1 & -2 \\
-1 & 1 & -1 & 1 & -3 \\
0 & 0 & -1 & 1 & -1 \\
0 & 0 & 0 & 1 & -2 \\
0 & 0 & 0 & 0 & -1
\end{pmatrix}
$$

(914)
$$
\begin{pmatrix}
-1 & 0 & 0 & 1 & -1 \\
-1 & 1 & -1 & 1 & -2 \\
-1 & 1 & -1 & 1 & -3 \\
0 & 0 & 0 & 1 & -2 \\
0 & 0 & -1 & 1 & -1
\end{pmatrix}
$$

(915)
$$
\begin{pmatrix}
-1 & 1 & -1 & 1 & -2 \\
-1 & 1 & -1 & 0 & -1 \\
-1 & 1 & -1 & 1 & -3 \\
0 & 0 & -1 & 1 & -1 \\
0 & 1 & -1 & 0 & -1
\end{pmatrix}
$$

(916)
$$
\begin{pmatrix}
-1 & 0 & 0 & 1 & -1 \\
0 & 0 & 0 & 1 & -1 \\
0 & -1 & 0 & 2 & -2 \\
0 & 0 & 0 & 1 & -2 \\
0 & 0 & -1 & 1 & -1
\end{pmatrix}
$$

(917) $\begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$

(918) $\begin{pmatrix} -2 & 1 & -1 & 2 & -2 \\ -1 & 1 & -1 & 1 & -2 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$

(919) $\begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & -1 & 2 & -2 \\ -1 & 1 & -1 & 1 & -2 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$

(920) $\begin{pmatrix} -1 & 1 & -1 & 1 & -3 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(921) $\begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ -1 & 1 & 0 & 1 & -3 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$

(922) $\begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ -1 & 1 & 0 & 1 & -3 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$

$$(923) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 1 & -1 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(924) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & -1 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(925) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 2 & 0 & -1 & -2 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$$

$$(926) \quad \begin{pmatrix} -1 & 2 & -1 & -1 & -1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 2 & 0 & -1 & -2 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & -1 \end{pmatrix}$$

$$(927) \quad \begin{pmatrix} -2 & 1 & 0 & 0 & -2 \\ -1 & 0 & 0 & 1 & -2 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(928) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & -3 \\ -1 & 0 & 0 & 1 & -2 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(929)
$$\begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & -2 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$$

(930)
$$\begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & 0 & 1 & -3 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 0 & 1 & -2 \end{pmatrix}$$

(931)
$$\begin{pmatrix} 1 & 1 & 0 & -2 & 0 \\ 1 & 0 & 0 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(932)
$$\begin{pmatrix} 1 & 1 & 0 & -2 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 0 & 1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(933)
$$\begin{pmatrix} -1 & 1 & 0 & -1 & -1 \\ 0 & 0 & 1 & 0 & -1 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 0 & 1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(934)
$$\begin{pmatrix} 0 & 1 & 0 & -1 & 0 \\ 1 & 1 & 0 & -2 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(935) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & -1 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 0 & 1 & 0 & -1 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(936) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(937) \quad \begin{pmatrix} 2 & -1 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(938) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(939) \quad \begin{pmatrix} 0 & 0 & 1 & 0 & -1 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 \\ 0 & 0 & 1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(940) \quad \begin{pmatrix} 1 & 0 & 1 & -1 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(941) $\begin{pmatrix} 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 \\ 0 & 0 & 1 & -1 & 0 \\ 0 & -1 & 1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(942) $\begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & -1 \\ 0 & 0 & 1 & 0 & -1 \\ 0 & 0 & 1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(943) $\begin{pmatrix} -1 & 2 & -1 & -1 & -1 \\ -1 & 2 & 0 & -1 & -2 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & -2 \end{pmatrix}$

(944) $\begin{pmatrix} -2 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & -1 & 0 \\ -2 & 1 & 0 & 0 & -2 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$

(945) $\begin{pmatrix} -2 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -2 \end{pmatrix}$

(946) $\begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -2 & 1 & 0 & 0 & -1 \\ -2 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$

$$(947) \quad \begin{pmatrix} 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \\ 1 & -1 & 1 & 1 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(948) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & -2 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(949) \quad \begin{pmatrix} 0 & 0 & 1 & 0 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ -1 & 0 & 0 & 1 & -2 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(950) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & -2 \\ -1 & 0 & 0 & 1 & -2 \\ 0 & -1 & 1 & 1 & -1 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(951) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ 0 & -1 & 0 & 2 & -2 \\ -1 & 0 & 0 & 1 & -2 \\ 0 & -1 & 1 & 1 & -1 \\ 0 & 0 & 0 & 1 & -2 \end{pmatrix}$$

$$(952) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 0 \\ 2 & -1 & 0 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 \\ 2 & -1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(953)
$$\begin{pmatrix} 0 & -1 & 1 & 1 & -1 \\ 0 & 0 & 1 & 0 & -1 \\ 0 & -1 & 1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(954)
$$\begin{pmatrix} 1 & -2 & 1 & 1 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(955)
$$\begin{pmatrix} 1 & -2 & 1 & 1 & -1 \\ 1 & -1 & 0 & 1 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(956)
$$\begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & -1 & 0 & 2 & -2 \\ -1 & 0 & 0 & 1 & -2 \\ 0 & -1 & 1 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(957)
$$\begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -2 \end{pmatrix}$$

(958)
$$\begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & -2 \\ -2 & 1 & 0 & 0 & -2 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$$

(959) $\begin{pmatrix} -2 & 1 & 0 & 0 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -2 & 1 & 0 & 0 & -2 \\ -1 & 1 & 0 & 0 & -2 \end{pmatrix}$

(960) $\begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & -2 \\ -2 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(961) $\begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & 0 & 0 & -1 \\ -2 & 1 & -1 & 0 & -1 \\ -2 & 1 & 0 & 0 & -2 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(962) $\begin{pmatrix} -1 & 2 & -1 & -1 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 2 & -1 & -1 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & 0 & -1 \end{pmatrix}$

(963) $\begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ -2 & 1 & -1 & 2 & -2 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 1 & -1 \\ -1 & 1 & 0 & 0 & -1 \end{pmatrix}$

(964) $\begin{pmatrix} -2 & 1 & -1 & 1 & -1 \\ -2 & 1 & -1 & 2 & -2 \\ -1 & 1 & -1 & 0 & 0 \\ -2 & 1 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & -1 \end{pmatrix}$

(965) $\begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ -2 & 1 & -1 & 1 & -1 \\ -2 & 1 & -1 & 2 & -2 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & -1 \end{pmatrix}$

(966) $\begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 2 & -1 & 0 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$

(967) $\begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$

(968) $\begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$

(969) $\begin{pmatrix} -1 & 0 & -1 & 1 & 0 \\ 0 & -1 & 0 & 1 & 0 \\ -1 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$

(970) $\begin{pmatrix} -2 & 1 & -2 & 1 & -1 \\ -1 & 0 & -1 & 1 & 0 \\ -1 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$

(971) $\begin{pmatrix} 1 & -2 & 0 & 3 & -2 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$

(972) $\begin{pmatrix} 1 & -2 & 0 & 3 & -2 \\ 0 & -1 & 0 & 2 & -1 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 2 & -2 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$

(973) $\begin{pmatrix} 1 & -2 & 0 & 3 & -2 \\ 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 2 & -1 \\ 1 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$

(974) $\begin{pmatrix} -1 & -1 & -1 & 3 & -1 \\ 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 2 & -1 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$

(975) $\begin{pmatrix} 1 & -2 & 0 & 3 & -2 \\ 0 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 2 & -2 \\ 1 & -1 & 0 & 2 & -2 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$

(976) $\begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ 0 & -1 & 0 & 2 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$

(977) $\begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & -1 & -1 & 3 & -1 \\ -1 & 0 & -1 & 2 & -1 \\ 0 & -1 & 0 & 2 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$

(978) $\begin{pmatrix} -1 & 0 & -1 & 1 & 0 \\ -1 & -1 & -1 & 3 & -1 \\ -1 & 0 & -1 & 2 & -1 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$

(979) $\begin{pmatrix} -2 & 1 & -1 & 1 & -1 \\ -2 & 1 & -1 & 2 & -2 \\ -1 & 0 & -1 & 2 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$

(980) $\begin{pmatrix} -2 & 1 & -1 & 1 & -1 \\ -1 & 0 & -1 & 1 & 0 \\ -1 & 0 & -1 & 2 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$

(981) $\begin{pmatrix} -2 & 1 & -1 & 1 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & -1 & 2 & -2 \\ -1 & 0 & -1 & 2 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$

(982) $\begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 2 & 0 \\ 1 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \end{pmatrix}$

$$(983) \quad \begin{pmatrix} -1 & 0 & -1 & 2 & -1 \\ -1 & -1 & 0 & 3 & -1 \\ 0 & -1 & 0 & 2 & -1 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(984) \quad \begin{pmatrix} 1 & -2 & 1 & 2 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \\ 1 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(985) \quad \begin{pmatrix} 1 & -2 & 0 & 3 & -2 \\ 1 & -2 & 1 & 2 & -1 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \end{pmatrix}$$

$$(986) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ 1 & -2 & 1 & 2 & -1 \\ 1 & -2 & 1 & 3 & -2 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 2 & -2 \end{pmatrix}$$

$$(987) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ 1 & -2 & 1 & 2 & -1 \\ 1 & -2 & 1 & 3 & -2 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 1 & 0 \end{pmatrix}$$

$$(988) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ 1 & -2 & 1 & 2 & -1 \\ 1 & -2 & 1 & 3 & -2 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \end{pmatrix}$$

$$(989) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \end{pmatrix}$$

$$(990) \quad \begin{pmatrix} 1 & -1 & 0 & 1 & 0 \\ 2 & -1 & 0 & 0 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(991) \quad \begin{pmatrix} 1 & -2 & 1 & 1 & 0 \\ 1 & -2 & 1 & 2 & -1 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 \end{pmatrix}$$

$$(992) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 1 & 1 & 0 \\ 1 & -2 & 1 & 2 & -1 \\ 1 & -1 & 0 & 1 & 0 \\ 0 & -1 & 1 & 1 & 0 \end{pmatrix}$$

$$(993) \quad \begin{pmatrix} 1 & -2 & 1 & 1 & 0 \\ 1 & -2 & 1 & 2 & -1 \\ 1 & -1 & 0 & 1 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(994) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 1 & 1 & 0 \\ 1 & -2 & 1 & 2 & -1 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(995) \quad \begin{pmatrix} 1 & -2 & 1 & 1 & 0 \\ 1 & -2 & 1 & 1 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(996) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 1 & 1 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & -1 & 1 & 1 & -1 \\ 0 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(997) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 2 & -1 \\ 1 & -2 & 1 & 2 & -1 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(998) \quad \begin{pmatrix} -1 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 2 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(999) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ -1 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 2 & -1 \\ 0 & -1 & 1 & 1 & 0 \\ 0 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(1000) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 2 & 0 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 1 & 0 \end{pmatrix}$$

$$(1001) \begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ -1 & 0 & -1 & 2 & -1 \\ -1 & -1 & 0 & 2 & 0 \\ -1 & -1 & 0 & 3 & -1 \\ -1 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(1002) \begin{pmatrix} -1 & 0 & -1 & 1 & 0 \\ -1 & 0 & -1 & 2 & -1 \\ -1 & -1 & 0 & 2 & 0 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & 0 \end{pmatrix}$$

$$(1003) \begin{pmatrix} -1 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 2 & -1 \\ -1 & -1 & 0 & 2 & 0 \\ -1 & 0 & 0 & 1 & -1 \\ 0 & -1 & 1 & 1 & 0 \end{pmatrix}$$

$$(1004) \begin{pmatrix} -2 & 1 & -1 & 1 & -1 \\ -1 & 0 & -1 & 2 & -1 \\ -2 & 1 & -1 & 2 & -2 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 0 & 0 & 1 & 0 \end{pmatrix}$$

$$(1005) \begin{pmatrix} -1 & 0 & -1 & 1 & 0 \\ -1 & 0 & -1 & 2 & -1 \\ -2 & 1 & -1 & 1 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & 0 \end{pmatrix}$$

$$(1006) \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1007) \quad \begin{pmatrix} 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1008) \quad \begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1009) \quad \begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1010) \quad \begin{pmatrix} 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 0 \\ 1 & 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1011) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 1 \\ 1 & 1 & 0 & -2 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1012) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

(1013) $\begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 1 & 1 & 0 & -2 & 0 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$

(1014) $\begin{pmatrix} -1 & 2 & -1 & -3 & 2 \\ -1 & 2 & -1 & -2 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$

(1015) $\begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 2 & -1 & -2 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$

(1016) $\begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 2 & -1 & -2 & 1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 2 & -1 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$

(1017) $\begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ -1 & 2 & -1 & -2 & 1 \\ -1 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$

(1018) $\begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -2 & 2 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 1 \\ 0 & 1 & -1 & -1 & 1 \end{pmatrix}$

$$(1019) \quad \begin{pmatrix} -1 & 2 & 0 & -3 & 2 \\ 0 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$$

$$(1020) \quad \begin{pmatrix} -1 & 2 & -1 & -2 & 1 \\ -1 & 2 & 0 & -3 & 2 \\ -1 & 1 & 0 & -1 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$$

$$(1021) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -2 & 2 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 1 \end{pmatrix}$$

$$(1022) \quad \begin{pmatrix} 1 & 0 & 1 & -2 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1023) \quad \begin{pmatrix} 1 & 0 & 1 & -2 & 1 \\ 1 & 1 & 1 & -3 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 0 \\ 1 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(1024) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ 1 & 1 & 1 & -3 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 1 \\ 1 & 1 & 0 & -2 & 0 \end{pmatrix}$$

$$(1025) \begin{pmatrix} 1 & 0 & 1 & -2 & 1 \\ 1 & 1 & 1 & -3 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(1026) \begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ 1 & 1 & 1 & -3 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 1 \end{pmatrix}$$

$$(1027) \begin{pmatrix} 1 & 0 & 1 & -2 & 1 \\ 1 & 1 & 1 & -3 & 1 \\ 1 & 1 & 0 & -2 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(1028) \begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ 1 & 1 & 1 & -3 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 1 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(1029) \begin{pmatrix} 2 & -1 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1030) \begin{pmatrix} 2 & -1 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 0 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$$

(1031) $\begin{pmatrix} 1 & 0 & 1 & -2 & 1 \\ 2 & -1 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$

(1032) $\begin{pmatrix} 1 & 0 & 1 & -2 & 1 \\ 2 & -1 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 1 & -1 & 0 \end{pmatrix}$

(1033) $\begin{pmatrix} 1 & 0 & 1 & -2 & 1 \\ 2 & -1 & 1 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \end{pmatrix}$

(1034) $\begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ 1 & 0 & 1 & -2 & 1 \\ 1 & 1 & 1 & -3 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$

(1035) $\begin{pmatrix} 1 & 0 & 1 & -2 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 0 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$

(1036) $\begin{pmatrix} 1 & -1 & 1 & -1 & 1 \\ 1 & 0 & 1 & -2 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$

$$(1037) \quad \begin{pmatrix} 1 & -1 & 1 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(1038) \quad \begin{pmatrix} -1 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ -1 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(1039) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ -1 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(1040) \quad \begin{pmatrix} -1 & 2 & -1 & -2 & 1 \\ -1 & 1 & 0 & -2 & 2 \\ -1 & 2 & 0 & -3 & 2 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & 1 \end{pmatrix}$$

$$(1041) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ -1 & 1 & 0 & -2 & 2 \\ -1 & 2 & 0 & -3 & 2 \\ -1 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & -1 & 1 \end{pmatrix}$$

$$(1042) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ -1 & 2 & -1 & -2 & 1 \\ -1 & 2 & 0 & -3 & 2 \\ -1 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$$

$$(1043) \quad \begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ -1 & 2 & -1 & -2 & 1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & 1 \end{pmatrix}$$

$$(1044) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 2 & -1 & 0 & 0 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1045) \quad \begin{pmatrix} 2 & -1 & 0 & -1 & 1 \\ 1 & -1 & 0 & 0 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1046) \quad \begin{pmatrix} 0 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1047) \quad \begin{pmatrix} 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & -1 & -1 & 1 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1048) \quad \begin{pmatrix} -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1049) \quad \begin{pmatrix} 0 & 0 & -1 & 0 & 1 \\ -1 & 1 & -1 & -1 & 1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1050) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 2 \\ 2 & -1 & 0 & 0 & 1 \\ 2 & -1 & 0 & 0 & 2 \\ 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & -1 & 0 & 1 \end{pmatrix}$$

$$(1051) \quad \begin{pmatrix} 1 & -1 & 0 & -1 & 3 \\ 1 & -1 & 0 & 0 & 2 \\ 0 & 0 & 0 & -1 & 2 \\ 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & -1 & 0 & 1 \end{pmatrix}$$

$$(1052) \quad \begin{pmatrix} 1 & -1 & 0 & -1 & 3 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & -1 & 2 \\ 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & -1 & 0 & 1 \end{pmatrix}$$

$$(1053) \quad \begin{pmatrix} 1 & -1 & 0 & -1 & 3 \\ 0 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 0 & 2 \\ 0 & 0 & 0 & -1 & 2 \\ 0 & 0 & -1 & 0 & 1 \end{pmatrix}$$

$$(1054) \quad \begin{pmatrix} 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & 0 & -1 & 2 \\ 0 & -1 & 0 & 0 & 2 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1055) \quad \begin{pmatrix} 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & 0 & -1 & 2 \\ -1 & 1 & -1 & -1 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1056) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & -1 & 2 \\ 0 & 1 & 0 & -2 & 2 \\ 1 & 0 & 0 & -1 & 1 \\ 0 & 1 & -1 & -1 & 1 \end{pmatrix}$$

$$(1057) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & 0 & -2 & 2 \\ 0 & 0 & 0 & -1 & 2 \\ 0 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \end{pmatrix}$$

$$(1058) \quad \begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & 0 & -2 & 2 \\ 0 & 0 & 0 & -1 & 2 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(1059) \quad \begin{pmatrix} -1 & 2 & -1 & -2 & 1 \\ -1 & 2 & 0 & -3 & 2 \\ -1 & 1 & 0 & -2 & 2 \\ -1 & 1 & 0 & -1 & 1 \\ 0 & 1 & -1 & -1 & 1 \end{pmatrix}$$

$$(1060) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ -1 & 2 & 0 & -3 & 2 \\ -1 & 1 & 0 & -2 & 2 \\ 0 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \end{pmatrix}$$

$$(1061) \quad \begin{pmatrix} -1 & 2 & -1 & -2 & 1 \\ -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & 0 & -2 & 2 \\ -1 & 1 & 0 & -1 & 1 \\ 0 & 1 & -1 & -1 & 1 \end{pmatrix}$$

$$(1062) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & -1 & 2 \\ 0 & 1 & 0 & -2 & 2 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \end{pmatrix}$$

$$(1063) \quad \begin{pmatrix} 2 & -1 & 1 & -1 & 1 \\ 3 & -2 & 1 & 0 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 0 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(1064) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 3 & -2 & 1 & 0 & 1 \\ 2 & -1 & 0 & 0 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1065) \quad \begin{pmatrix} 2 & -1 & 1 & -1 & 1 \\ 3 & -2 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(1066) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 3 & -2 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 2 & -1 & 0 & 0 & 1 \\ 1 & 0 & 0 & -1 & 1 \end{pmatrix}$$

$$(1067) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 2 \\ 1 & -1 & 1 & 0 & 1 \\ 2 & -1 & 0 & 0 & 1 \\ 2 & -1 & 0 & 0 & 2 \\ 1 & 0 & 0 & -1 & 1 \end{pmatrix}$$

$$(1068) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 1 & -1 & 2 \\ 2 & -1 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1069) \quad \begin{pmatrix} 2 & -1 & 1 & -2 & 2 \\ 1 & -1 & 1 & -1 & 2 \\ 2 & -1 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \end{pmatrix}$$

$$(1070) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 1 & -1 & 2 \\ 2 & -1 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(1071) \quad \begin{pmatrix} 2 & -1 & 1 & -2 & 2 \\ 1 & -1 & 1 & -1 & 2 \\ 2 & -1 & 1 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(1072) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 2 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & -1 & 1 & -1 & 3 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 2 \end{pmatrix}$$

$$(1073) \quad \begin{pmatrix} 1 & -1 & 1 & -1 & 2 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & -1 & 1 & -1 & 3 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1074) \quad \begin{pmatrix} 1 & -1 & 1 & -1 & 2 \\ 0 & 0 & 0 & -1 & 2 \\ 1 & -1 & 1 & -1 & 3 \\ 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \end{pmatrix}$$

$$(1075) \quad \begin{pmatrix} 1 & -1 & 1 & -1 & 1 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 1 & -1 & 2 \\ 0 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(1076) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & -1 & 1 & -1 & 1 \\ 1 & -1 & 1 & -1 & 2 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \end{pmatrix}$$

$$(1077) \quad \begin{pmatrix} 1 & -2 & 1 & 0 & 1 \\ 1 & -1 & 1 & -1 & 1 \\ 0 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(1078) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & -1 & 1 & -1 & 1 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(1079) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 2 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & -1 & 1 & -1 & 2 \\ 1 & -1 & 1 & -1 & 3 \\ 0 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1080) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & -1 & 1 & -1 & 2 \\ 0 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1081) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & -1 & 2 \\ 1 & -1 & 1 & -1 & 2 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 \end{pmatrix}$$

$$(1082) \quad \begin{pmatrix} 0 & -1 & 0 & 0 & 2 \\ 0 & 0 & 0 & -1 & 2 \\ 1 & -1 & 0 & 0 & 2 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

$$(1083) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & -1 & 0 & 0 & 2 \\ 0 & 0 & 0 & -1 & 2 \\ 0 & -1 & 1 & 0 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1084) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & -1 & 0 \\ 0 & -1 & 1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(1085)
$$\begin{pmatrix} 0 & -1 & 0 & 0 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(1086)
$$\begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ -1 & 1 & 0 & -2 & 2 \\ 0 & 1 & 0 & -2 & 2 \\ 0 & 0 & 1 & -1 & 1 \end{pmatrix}$$

(1087)
$$\begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & -1 & -1 & 1 \\ 0 & 0 & 0 & -1 & 2 \\ -1 & 1 & 0 & -2 & 2 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(1088)
$$\begin{pmatrix} -1 & 1 & 0 & -2 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & 0 & -2 & 2 \\ 0 & 0 & 1 & -1 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(1089)
$$\begin{pmatrix} -1 & 1 & 0 & -2 & 1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & 0 & -2 & 2 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(1090)
$$\begin{pmatrix} -1 & 1 & 0 & -2 & 1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1091) \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & 0 & -2 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1092) \begin{pmatrix} -3 & 2 & -1 & 0 & -1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(1093) \begin{pmatrix} -2 & 1 & 0 & 0 & -1 \\ -3 & 2 & -1 & 0 & -1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -2 & 1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1094) \begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1095) \begin{pmatrix} -3 & 2 & -1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(1096) \begin{pmatrix} -2 & 1 & -1 & 0 & 0 \\ -2 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & -1 & 0 \\ -2 & 1 & -1 & 0 & -1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1097) \quad \begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & -1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1098) \quad \begin{pmatrix} -3 & 2 & -1 & 0 & -1 \\ -2 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(1099) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 2 & -1 & 0 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1100) \quad \begin{pmatrix} 0 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 1 \\ 0 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1101) \quad \begin{pmatrix} 0 & 0 & -1 & 0 & 1 \\ 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1102) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ -1 & 0 & -1 & 1 & 0 \\ -1 & 0 & -1 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1103) \quad \begin{pmatrix} -2 & 1 & -2 & 1 & -1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 0 & -1 & 1 & 0 \\ -1 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1104) \quad \begin{pmatrix} -2 & 1 & -2 & 1 & -1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & -1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1105) \quad \begin{pmatrix} -1 & 0 & -1 & 1 & 0 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 0 & -1 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1106) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 2 \\ 2 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 0 & 1 \end{pmatrix}$$

$$(1107) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 1 & -2 & 0 & 1 & 2 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 0 & 1 \end{pmatrix}$$

$$(1108) \quad \begin{pmatrix} 0 & -1 & 0 & 0 & 2 \\ 1 & -2 & 0 & 1 & 2 \\ 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & 1 \\ 0 & 0 & -1 & 0 & 1 \end{pmatrix}$$

$$(1109) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 1 & -2 & 0 & 1 & 2 \\ 0 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 0 & 1 \end{pmatrix}$$

$$(1110) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 1 & -2 & 0 & 1 & 2 \\ 0 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 0 & 2 \\ 0 & 0 & -1 & 0 & 1 \end{pmatrix}$$

$$(1111) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & -1 & 0 & 1 & 1 \\ 0 & -1 & 0 & 0 & 2 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1112) \quad \begin{pmatrix} -1 & 0 & -1 & 1 & 0 \\ 0 & -1 & 0 & 1 & 0 \\ -1 & -1 & 0 & 2 & 0 \\ 0 & -1 & 0 & 1 & 1 \\ 0 & 0 & -1 & 1 & 0 \end{pmatrix}$$

$$(1113) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 1 & 0 \\ -1 & -1 & 0 & 2 & 0 \\ 0 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \end{pmatrix}$$

$$(1114) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & -1 \\ -1 & 0 & -1 & 2 & -1 \\ -1 & -1 & 0 & 3 & -1 \\ -1 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \end{pmatrix}$$

$$(1115) \quad \begin{pmatrix} -1 & -1 & -1 & 3 & -1 \\ -1 & 0 & -1 & 2 & -1 \\ -1 & 0 & -1 & 1 & 0 \\ -1 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \end{pmatrix}$$

$$(1116) \quad \begin{pmatrix} 2 & -1 & 1 & -1 & 1 \\ 3 & -2 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 2 & -1 & 0 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(1117) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 3 & -2 & 1 & 0 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 2 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1118) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 2 & -1 & 1 & -1 & 1 \\ 3 & -2 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(1119) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & -1 & 1 & 0 & 1 \\ 2 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 1 & 0 \end{pmatrix}$$

$$(1120) \quad \begin{pmatrix} 1 & -2 & 1 & 1 & 1 \\ 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & 1 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 1 & 0 \end{pmatrix}$$

$$(1121) \quad \begin{pmatrix} 1 & -2 & 1 & 1 & 0 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1122) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 1 & 1 & 0 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -2 & 1 & 1 & 1 \\ 1 & -1 & 0 & 1 & 0 \end{pmatrix}$$

$$(1123) \quad \begin{pmatrix} 1 & -2 & 1 & 0 & 1 \\ 1 & -2 & 1 & 1 & 0 \\ 1 & -1 & 0 & 0 & 1 \\ 0 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(1124) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 1 & 1 & 0 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -2 & 1 & 1 & 1 \\ 0 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1125) \quad \begin{pmatrix} 1 & -2 & 1 & 0 & 1 \\ 1 & -2 & 1 & 1 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1126) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 1 & 0 & 1 \\ 1 & -2 & 1 & 1 & 0 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(1127) \quad \begin{pmatrix} 1 & -2 & 1 & 1 & 1 \\ 0 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & -2 & 1 & 1 & 2 \\ 1 & -1 & 0 & 1 & 0 \end{pmatrix}$$

$$(1128) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 1 & -2 & 1 & 1 & 1 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1129) \quad \begin{pmatrix} 1 & -2 & 0 & 1 & 2 \\ 0 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & -2 & 1 & 1 & 1 \\ 0 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1130) \quad \begin{pmatrix} 1 & -2 & 0 & 1 & 2 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & -2 & 1 & 1 & 1 \\ 0 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1131) \quad \begin{pmatrix} 1 & -2 & 0 & 1 & 2 \\ 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & 1 \\ 1 & -2 & 1 & 1 & 1 \\ 0 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1132) \quad \begin{pmatrix} 1 & -2 & 0 & 1 & 2 \\ 0 & -1 & 0 & 0 & 2 \\ 0 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 0 & 2 \\ 0 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1133) \begin{pmatrix} 0 & -1 & 0 & 0 & 1 \\ 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 0 & 2 \\ 0 & -1 & 1 & 0 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1134) \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ 0 & -1 & 1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1135) \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 \\ 0 & -1 & 1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1136) \begin{pmatrix} -1 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 1 & 0 \\ -1 & 0 & -1 & 1 & 0 \\ -1 & -1 & 0 & 2 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1137) \begin{pmatrix} -1 & -1 & 0 & 2 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & -1 & 1 & 0 \\ -1 & 0 & -1 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1138) \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ -1 & -1 & 0 & 2 & -1 \\ -1 & -1 & 0 & 2 & -2 \\ 0 & -1 & 1 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(1139) $\begin{pmatrix} -1 & -1 & 0 & 2 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & -1 & 1 & -1 \\ -1 & -1 & 0 & 2 & -2 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(1140) $\begin{pmatrix} -1 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 2 & -1 \\ -1 & -1 & 0 & 2 & 0 \\ 0 & -1 & 1 & 1 & 0 \end{pmatrix}$

(1141) $\begin{pmatrix} -3 & 2 & -1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -2 & 1 & -1 & 1 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & -1 \end{pmatrix}$

(1142) $\begin{pmatrix} -3 & 2 & -1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -2 & 1 & -1 & 1 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & -1 & 0 & -1 \end{pmatrix}$

(1143) $\begin{pmatrix} -3 & 2 & -1 & 0 & -1 \\ -2 & 1 & -1 & 0 & 0 \\ -2 & 1 & -1 & 1 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & -1 & 0 & -1 \end{pmatrix}$

(1144) $\begin{pmatrix} -2 & 1 & 0 & 0 & -1 \\ -3 & 2 & -1 & 0 & -1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & 0 & 0 & 0 \end{pmatrix}$

$$(1145) \quad \begin{pmatrix} -2 & 1 & -2 & 1 & -1 \\ -1 & 0 & -1 & 1 & 0 \\ -2 & 1 & -1 & 0 & 0 \\ -2 & 1 & -1 & 1 & -1 \\ -1 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(1146) \quad \begin{pmatrix} -3 & 2 & -1 & 0 & -1 \\ -2 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(1147) \quad \begin{pmatrix} -2 & 1 & -2 & 1 & -1 \\ -2 & 1 & -1 & 1 & -1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(1148) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & -1 & 0 & 0 \\ -2 & 1 & -1 & 0 & -1 \\ -1 & 0 & -1 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1149) \quad \begin{pmatrix} 1 & 1 & 0 & -2 & 0 \\ 1 & 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1150) \quad \begin{pmatrix} 1 & 1 & 0 & -2 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1151) \begin{pmatrix} -1 & 1 & -1 & 0 & -1 \\ -1 & 2 & -1 & -1 & -2 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1152) \begin{pmatrix} -1 & 1 & 0 & -1 & -1 \\ -1 & 2 & -1 & -1 & -2 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1153) \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 2 & -1 & -1 & -1 \\ -1 & 2 & -1 & -1 & -2 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1154) \begin{pmatrix} -1 & 2 & -1 & -1 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 2 & -1 & -1 & -2 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1155) \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1156) \begin{pmatrix} -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(1157) $\begin{pmatrix} 0 & 1 & -1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(1158) $\begin{pmatrix} 2 & -1 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(1159) $\begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$

(1160) $\begin{pmatrix} -1 & 1 & -1 & 0 & 0 \\ -1 & 2 & -1 & -1 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$

(1161) $\begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 2 & -1 & -1 & -1 \\ -1 & 2 & -1 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$

(1162) $\begin{pmatrix} -1 & 2 & -1 & -1 & -2 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

$$(1163) \quad \begin{pmatrix} -1 & 2 & -1 & -1 & -1 \\ -1 & 2 & 0 & -1 & -2 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(1164) \quad \begin{pmatrix} -1 & 2 & -1 & -1 & -1 \\ -1 & 2 & 0 & -1 & -2 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(1165) \quad \begin{pmatrix} -1 & 2 & -1 & -1 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 2 & -1 & -1 & 0 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(1166) \quad \begin{pmatrix} -2 & 1 & -1 & 0 & -1 \\ -1 & 0 & -1 & 1 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1167) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & -1 \\ -1 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1168) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1169) \quad \begin{pmatrix} 2 & -1 & 0 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1170) \quad \begin{pmatrix} -2 & 1 & -2 & 1 & -1 \\ -1 & 0 & -1 & 1 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1171) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & -2 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1172) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -2 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1173) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -2 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & 1 & -3 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1174) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & -2 \\ -1 & 1 & -1 & 1 & -3 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1175) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & -1 & 1 & -2 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & 1 & -3 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1176) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & -2 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1177) \quad \begin{pmatrix} -2 & 1 & -1 & 1 & -1 \\ -1 & 1 & -1 & 1 & -2 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1178) \quad \begin{pmatrix} -2 & 1 & -1 & 1 & -1 \\ -2 & 1 & -1 & 2 & -2 \\ -1 & 1 & -1 & 1 & -2 \\ -1 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1179) \quad \begin{pmatrix} -2 & 1 & -1 & 1 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & -1 & 2 & -2 \\ -1 & 1 & -1 & 1 & -2 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1180) \quad \begin{pmatrix} -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & 1 & -3 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1181) \begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ -1 & 1 & -1 & 1 & -3 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 0 & 1 & -2 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(1182) \begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(1183) \begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & -1 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(1184) \begin{pmatrix} -2 & 1 & 0 & 0 & -2 \\ -1 & 1 & 0 & -1 & -1 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1185) \begin{pmatrix} -1 & 2 & -1 & -1 & -2 \\ -1 & 1 & 0 & -1 & -1 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1186) \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & -1 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$$

(1187)
$$\begin{pmatrix} -1 & 2 & -1 & -1 & -1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 2 & 0 & -1 & -2 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 1 & 0 & -1 & -1 \end{pmatrix}$$

(1188)
$$\begin{pmatrix} -1 & 1 & -1 & 0 & -1 \\ -2 & 1 & 0 & 0 & -2 \\ -1 & 0 & 0 & 1 & -2 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(1189)
$$\begin{pmatrix} 0 & 0 & 1 & 0 & -1 \\ -1 & 0 & 0 & 1 & -2 \\ -2 & 1 & 0 & 0 & -2 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(1190)
$$\begin{pmatrix} -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & 1 & -3 \\ -1 & 0 & 0 & 1 & -2 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(1191)
$$\begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & -1 & 1 & -3 \\ -1 & 0 & 0 & 1 & -2 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 0 & 1 & -2 \end{pmatrix}$$

(1192)
$$\begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & -1 & 1 & -3 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 0 & 1 & -2 \end{pmatrix}$$

$$(1193) \quad \begin{pmatrix} 1 & 1 & 0 & -2 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 0 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1194) \quad \begin{pmatrix} 1 & 1 & 0 & -2 & 0 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1195) \quad \begin{pmatrix} 0 & 0 & 1 & 0 & -1 \\ -1 & 1 & 0 & -1 & -1 \\ 0 & 0 & 1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1196) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & -1 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1197) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & -1 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(1198) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 0 \\ 2 & -1 & 0 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(1199) $\begin{pmatrix} 0 & 0 & 1 & 0 & -1 \\ 0 & 0 & 1 & -1 & 0 \\ 0 & -1 & 1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(1200) $\begin{pmatrix} 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 1 & -1 & 0 \\ 0 & -1 & 1 & 0 & 0 \\ 0 & 0 & 1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(1201) $\begin{pmatrix} 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 1 & -1 & 0 \\ 0 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(1202) $\begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & -1 \\ -1 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(1203) $\begin{pmatrix} -1 & 2 & -1 & -1 & -1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -2 \end{pmatrix}$

(1204) $\begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & -1 \\ -2 & 1 & 0 & 0 & -2 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \end{pmatrix}$

$$(1205) \quad \begin{pmatrix} -2 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & -1 & 0 & -1 \\ -2 & 1 & 0 & 0 & -2 \\ -1 & 1 & 0 & 0 & -2 \end{pmatrix}$$

$$(1206) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & -1 \\ -2 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & -1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1207) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -2 & 1 & 0 & 0 & -1 \\ -2 & 1 & -1 & 0 & -1 \\ -2 & 1 & 0 & 0 & -2 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1208) \quad \begin{pmatrix} 0 & -1 & 0 & 2 & -2 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1209) \quad \begin{pmatrix} -1 & -1 & 0 & 2 & -2 \\ 0 & -1 & 1 & 1 & -1 \\ -1 & 0 & 0 & 1 & -2 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1210) \quad \begin{pmatrix} -1 & -1 & 0 & 2 & -2 \\ 0 & -1 & 0 & 2 & -2 \\ -1 & 0 & 0 & 1 & -2 \\ 0 & -1 & 1 & 1 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(1211) $\begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & -1 & 0 & 2 & -2 \\ 0 & -1 & 0 & 2 & -2 \\ -1 & 0 & 0 & 1 & -2 \\ 0 & -1 & 1 & 1 & -1 \end{pmatrix}$

(1212) $\begin{pmatrix} 1 & -1 & 1 & 0 & 0 \\ 2 & -1 & 0 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(1213) $\begin{pmatrix} 0 & -1 & 0 & 1 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ 0 & -1 & 1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(1214) $\begin{pmatrix} 0 & -1 & 0 & 1 & -1 \\ 1 & -2 & 1 & 1 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ 0 & -1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(1215) $\begin{pmatrix} 1 & -2 & 1 & 1 & -1 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(1216) $\begin{pmatrix} 0 & -1 & 0 & 1 & -1 \\ 1 & -2 & 1 & 1 & -1 \\ 1 & -1 & 0 & 1 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

$$(1217) \begin{pmatrix} 1 & -2 & 1 & 1 & -1 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1218) \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & -1 & 1 & -1 \\ -1 & -1 & 0 & 2 & -2 \\ -1 & 0 & 0 & 1 & -2 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1219) \begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & -1 & 1 & -3 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -2 \end{pmatrix}$$

$$(1220) \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 0 & 0 & 1 & -2 \\ -2 & 1 & 0 & 0 & -2 \\ -1 & 1 & 0 & 0 & -2 \end{pmatrix}$$

$$(1221) \begin{pmatrix} -2 & 1 & 0 & 0 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -2 & 1 & 0 & 0 & -2 \end{pmatrix}$$

$$(1222) \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & -1 & 0 & -1 \\ -1 & 0 & 0 & 1 & -2 \\ -2 & 1 & 0 & 0 & -2 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

(1223) $\begin{pmatrix} -1 & 2 & -1 & -1 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & -1 & 0 & -1 \end{pmatrix}$

(1224) $\begin{pmatrix} -2 & 1 & -1 & 1 & -1 \\ -1 & 1 & -1 & 1 & -2 \\ -2 & 1 & -1 & 2 & -2 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & 0 & -1 \end{pmatrix}$

(1225) $\begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ -2 & 1 & -1 & 1 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & -1 & 0 & -1 \end{pmatrix}$

(1226) $\begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$

(1227) $\begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ -1 & 0 & -1 & 1 & -1 \\ 0 & -1 & 0 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$

(1228) $\begin{pmatrix} 1 & -2 & 0 & 3 & -2 \\ 0 & -1 & 0 & 2 & -2 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$

$$(1229) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 0 & 3 & -2 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1230) \quad \begin{pmatrix} 1 & -2 & 0 & 3 & -2 \\ 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1231) \quad \begin{pmatrix} -1 & -1 & 0 & 2 & -1 \\ -1 & -1 & -1 & 3 & -1 \\ 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 2 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1232) \quad \begin{pmatrix} -1 & 0 & -1 & 1 & 0 \\ -1 & -1 & -1 & 3 & -1 \\ 0 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1233) \quad \begin{pmatrix} -1 & -1 & 0 & 2 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ 0 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1234) \quad \begin{pmatrix} -1 & 0 & -1 & 1 & 0 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & -1 & -1 & 3 & -1 \\ -1 & 0 & -1 & 2 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1235) \begin{pmatrix} -1 & -1 & 0 & 2 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & -1 & -1 & 3 & -1 \\ 0 & -1 & 0 & 2 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1236) \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & -1 & 1 & -1 \\ -1 & 0 & -1 & 1 & 0 \\ -1 & 0 & -1 & 2 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1237) \begin{pmatrix} -2 & 1 & -2 & 1 & -1 \\ -2 & 1 & -1 & 1 & -1 \\ -1 & 0 & -1 & 1 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1238) \begin{pmatrix} 1 & -2 & 0 & 3 & -2 \\ 1 & -2 & 1 & 2 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \end{pmatrix}$$

$$(1239) \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 0 & 3 & -2 \\ 1 & -2 & 1 & 2 & -1 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & -1 \end{pmatrix}$$

$$(1240) \begin{pmatrix} 1 & -2 & 0 & 3 & -2 \\ 0 & -1 & 0 & 2 & -1 \\ 1 & -2 & 1 & 2 & -1 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 2 & -2 \end{pmatrix}$$

$$(1241) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 2 & -1 \\ 1 & -2 & 1 & 2 & -1 \\ 0 & -1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 1 & 0 \end{pmatrix}$$

$$(1242) \quad \begin{pmatrix} 1 & -2 & 0 & 3 & -2 \\ 0 & -1 & 0 & 2 & -1 \\ 1 & -2 & 1 & 2 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \end{pmatrix}$$

$$(1243) \quad \begin{pmatrix} 1 & -2 & 0 & 3 & -2 \\ 0 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \end{pmatrix}$$

$$(1244) \quad \begin{pmatrix} 1 & -2 & 1 & 1 & 0 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1245) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 1 & 1 & 0 \\ 1 & -2 & 1 & 2 & -1 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & -1 \end{pmatrix}$$

$$(1246) \quad \begin{pmatrix} 1 & -2 & 1 & 1 & 0 \\ 1 & -2 & 1 & 1 & -1 \\ 1 & -1 & 0 & 1 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(1247) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 1 & 1 & 0 \\ 1 & -2 & 1 & 2 & -1 \\ 1 & -1 & 0 & 1 & -1 \\ 0 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(1248) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 1 & 1 & 0 \\ 1 & -2 & 1 & 1 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ 0 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(1249) \quad \begin{pmatrix} 1 & -2 & 1 & 1 & 0 \\ 1 & -2 & 1 & 1 & -1 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1250) \quad \begin{pmatrix} 1 & -2 & 0 & 3 & -2 \\ 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 2 & -1 \\ 1 & -2 & 1 & 2 & -1 \\ 0 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(1251) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ -1 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(1252) \quad \begin{pmatrix} -1 & -1 & 0 & 2 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & -1 & 0 & 2 & -2 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & -1 & 1 & 1 & -1 \end{pmatrix}$$

(1253)
$$\begin{pmatrix} -1 & -1 & -1 & 3 & -1 \\ 0 & -1 & 0 & 2 & -1 \\ -1 & 0 & -1 & 2 & -1 \\ -1 & -1 & 0 & 2 & 0 \\ -1 & 0 & 0 & 1 & -1 \end{pmatrix}$$

(1254)
$$\begin{pmatrix} -1 & -1 & -1 & 3 & -1 \\ -1 & 0 & -1 & 1 & 0 \\ -1 & 0 & -1 & 2 & -1 \\ -1 & -1 & 0 & 2 & 0 \\ -1 & 0 & 0 & 1 & -1 \end{pmatrix}$$

(1255)
$$\begin{pmatrix} -1 & -1 & -1 & 3 & -1 \\ -1 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 2 & -1 \\ -1 & -1 & 0 & 2 & 0 \\ -1 & 0 & 0 & 1 & -1 \end{pmatrix}$$

(1256)
$$\begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & -1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \end{pmatrix}$$

(1257)
$$\begin{pmatrix} 2 & -1 & 0 & -1 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

(1258)
$$\begin{pmatrix} 2 & -1 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 0 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

(1259) $\begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & -1 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$

(1260) $\begin{pmatrix} 1 & 1 & 0 & -3 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$

(1261) $\begin{pmatrix} 1 & 1 & 0 & -3 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$

(1262) $\begin{pmatrix} 1 & 1 & 0 & -3 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$

(1263) $\begin{pmatrix} -1 & 2 & -1 & -3 & 2 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$

(1264) $\begin{pmatrix} 1 & 1 & 0 & -3 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ 1 & 1 & 0 & -2 & 0 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$

$$(1265) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1266) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 2 & -1 & -3 & 2 \\ -1 & 2 & -1 & -2 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1267) \quad \begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ -1 & 2 & -1 & -3 & 2 \\ -1 & 2 & -1 & -2 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1268) \quad \begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 2 & -1 & -2 & 1 \\ -1 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1269) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -2 & 2 \\ 1 & 0 & 0 & -1 & 1 \\ 0 & 1 & -1 & -1 & 1 \end{pmatrix}$$

$$(1270) \quad \begin{pmatrix} -1 & 2 & -1 & -2 & 1 \\ -1 & 2 & 0 & -3 & 2 \\ 0 & 1 & 0 & -2 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & 0 & -1 & 0 \end{pmatrix}$$

$$(1271) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -2 & 2 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \end{pmatrix}$$

$$(1272) \quad \begin{pmatrix} 1 & 0 & 1 & -2 & 1 \\ 1 & 1 & 0 & -2 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 0 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1273) \quad \begin{pmatrix} 1 & 1 & 0 & -3 & 1 \\ 1 & 0 & 1 & -2 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1274) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ 1 & 0 & 1 & -2 & 1 \\ 1 & 1 & 1 & -3 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 0 \end{pmatrix}$$

$$(1275) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ 1 & 0 & 1 & -2 & 1 \\ 1 & 1 & 1 & -3 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \end{pmatrix}$$

$$(1276) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ 1 & 0 & 1 & -2 & 1 \\ 1 & 1 & 1 & -3 & 1 \\ 1 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(1277) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -1 & 0 \\ 1 & 1 & 0 & -2 & 0 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(1278) \quad \begin{pmatrix} 2 & -1 & 1 & -1 & 1 \\ 2 & -1 & 0 & 0 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 2 & -1 & 1 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1279) \quad \begin{pmatrix} 1 & 0 & 1 & -2 & 1 \\ 2 & -1 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1280) \quad \begin{pmatrix} 2 & -1 & 0 & -1 & 1 \\ 2 & -1 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 0 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1281) \quad \begin{pmatrix} 2 & -1 & 1 & -2 & 2 \\ 1 & 0 & 1 & -2 & 1 \\ 2 & -1 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1282) \quad \begin{pmatrix} 2 & -1 & 1 & -2 & 2 \\ 1 & 0 & 1 & -2 & 1 \\ 2 & -1 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \end{pmatrix}$$

$$(1283) \quad \begin{pmatrix} 2 & -1 & 1 & -2 & 2 \\ 1 & 0 & 1 & -2 & 1 \\ 2 & -1 & 1 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(1284) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ 1 & 0 & 1 & -2 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(1285) \quad \begin{pmatrix} 1 & -1 & 1 & -1 & 1 \\ 1 & 0 & 1 & -2 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1286) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & -1 & 1 & -1 & 1 \\ 1 & 0 & 1 & -2 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(1287) \quad \begin{pmatrix} 1 & -1 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 1 & -1 & 0 \\ 0 & -1 & 1 & 0 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(1288) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & -1 & 1 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & -1 & 1 & 0 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

(1289) $\begin{pmatrix} -1 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ -1 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$

(1290) $\begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$

(1291) $\begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ -1 & 2 & -1 & -2 & 1 \\ -1 & 1 & 0 & -2 & 2 \\ -1 & 2 & 0 & -3 & 2 \\ -1 & 1 & 0 & -1 & 0 \end{pmatrix}$

(1292) $\begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ -1 & 2 & -1 & -2 & 1 \\ -1 & 1 & 0 & -2 & 2 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & 1 \end{pmatrix}$

(1293) $\begin{pmatrix} -1 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ -1 & 1 & 0 & -2 & 2 \\ -1 & 1 & 0 & -1 & 0 \\ 0 & 0 & 1 & -1 & 1 \end{pmatrix}$

(1294) $\begin{pmatrix} 2 & -1 & 0 & -1 & 1 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$

(1295) $\begin{pmatrix} 2 & -1 & 0 & -1 & 1 \\ 1 & -1 & 0 & 0 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$

(1296) $\begin{pmatrix} 0 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$

(1297) $\begin{pmatrix} 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & -1 & 0 & 0 & 1 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$

(1298) $\begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & -1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$

(1299) $\begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$

(1300) $\begin{pmatrix} -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$

$$(1301) \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 2 \\ 2 & -1 & 0 & 0 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & -1 & 0 & 1 \end{pmatrix}$$

$$(1302) \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & -1 & 3 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & -1 & 0 & 1 \end{pmatrix}$$

$$(1303) \begin{pmatrix} 0 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & -1 & 3 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & -1 & 2 \\ 0 & 0 & -1 & 0 & 1 \end{pmatrix}$$

$$(1304) \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & -1 & 3 \\ 0 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & -1 & 0 & 1 \end{pmatrix}$$

$$(1305) \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & -1 & 3 \\ 0 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 0 & 2 \\ 0 & 0 & -1 & 0 & 1 \end{pmatrix}$$

$$(1306) \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 0 & 0 & -1 & 2 \\ 0 & -1 & 0 & 0 & 2 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1307) \quad \begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & 0 & -2 & 2 \\ 0 & 0 & 0 & -1 & 2 \\ 0 & 1 & -1 & -1 & 1 \end{pmatrix}$$

$$(1308) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & 0 & -2 & 2 \\ 0 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \end{pmatrix}$$

$$(1309) \quad \begin{pmatrix} 0 & 1 & 0 & -2 & 1 \\ -1 & 2 & -1 & -2 & 1 \\ -1 & 2 & 0 & -3 & 2 \\ -1 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \end{pmatrix}$$

$$(1310) \quad \begin{pmatrix} -1 & 2 & -1 & -3 & 2 \\ -1 & 2 & -1 & -2 & 1 \\ -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \end{pmatrix}$$

$$(1311) \quad \begin{pmatrix} 1 & -1 & 1 & -1 & 2 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & -1 & 2 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \end{pmatrix}$$

$$(1312) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 2 & -1 & 1 & -1 & 1 \\ 3 & -2 & 1 & 0 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1313) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 2 & -1 & 1 & -1 & 1 \\ 3 & -2 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 1 \\ 1 & 0 & 0 & -1 & 1 \end{pmatrix}$$

$$(1314) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & -1 & 1 & 0 & 1 \\ 2 & -1 & 0 & 0 & 1 \\ 1 & 0 & 0 & -1 & 1 \end{pmatrix}$$

$$(1315) \quad \begin{pmatrix} 2 & -1 & 1 & -2 & 2 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 1 & -1 & 2 \\ 2 & -1 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \end{pmatrix}$$

$$(1316) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & -2 & 2 \\ 1 & -1 & 1 & -1 & 2 \\ 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \end{pmatrix}$$

$$(1317) \quad \begin{pmatrix} 2 & -1 & 1 & -2 & 2 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 1 & -1 & 2 \\ 2 & -1 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(1318) \quad \begin{pmatrix} 1 & -1 & 1 & -1 & 1 \\ 2 & -1 & 1 & -2 & 2 \\ 1 & -1 & 1 & -1 & 2 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(1319) \quad \begin{pmatrix} 1 & -1 & 1 & -1 & 2 \\ 0 & 0 & 0 & -1 & 2 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & -1 & 1 & -1 & 3 \\ 1 & 0 & 0 & -1 & 1 \end{pmatrix}$$

$$(1320) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 1 & -1 & 2 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1321) \quad \begin{pmatrix} 1 & -2 & 1 & 0 & 1 \\ 1 & -1 & 1 & -1 & 1 \\ 1 & -1 & 0 & 0 & 1 \\ 0 & -1 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(1322) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & -1 & 1 & -1 & 1 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 1 & -1 & 2 \\ 0 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1323) \quad \begin{pmatrix} 1 & -2 & 1 & 0 & 1 \\ 1 & -1 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1324) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & -2 & 1 & 0 & 1 \\ 1 & -1 & 1 & -1 & 1 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(1325) \quad \begin{pmatrix} 1 & -1 & 0 & -1 & 3 \\ 0 & 0 & 0 & -1 & 2 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & -1 & 1 & -1 & 2 \\ 0 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1326) \quad \begin{pmatrix} 1 & -1 & 0 & -1 & 3 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & -1 & 1 & -1 & 2 \\ 0 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1327) \quad \begin{pmatrix} 1 & -1 & 0 & -1 & 3 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & -1 & 2 \\ 1 & -1 & 1 & -1 & 2 \\ 0 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1328) \quad \begin{pmatrix} 1 & -1 & 0 & -1 & 3 \\ 0 & -1 & 0 & 0 & 2 \\ 0 & 0 & 0 & -1 & 2 \\ 1 & -1 & 0 & 0 & 2 \\ 0 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1329) \quad \begin{pmatrix} 0 & -1 & 0 & 0 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & -1 & 0 & 0 & 2 \\ 0 & -1 & 1 & 0 & 1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1330) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & -1 & 1 & 0 & 0 \\ 0 & 0 & 1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1331) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & -1 & 0 & 0 & 1 \\ 0 & -1 & 1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1332) \quad \begin{pmatrix} -1 & 1 & 0 & -2 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ -1 & 1 & 0 & -2 & 2 \\ 0 & 0 & 1 & -1 & 1 \end{pmatrix}$$

$$(1333) \quad \begin{pmatrix} -1 & 1 & 0 & -2 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & 0 & -2 & 2 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1334) \quad \begin{pmatrix} -1 & 1 & 0 & -2 & 1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & -1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1335) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & 0 & -2 & 1 \\ -1 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1336) \quad \begin{pmatrix} -1 & 1 & 0 & -2 & 1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -2 & 0 \\ -1 & 1 & -1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1337) \begin{pmatrix} -2 & 1 & 0 & 0 & -1 \\ -3 & 2 & -1 & 0 & -1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(1338) \begin{pmatrix} -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1339) \begin{pmatrix} -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -2 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1340) \begin{pmatrix} 2 & -1 & 0 & -1 & 1 \\ 1 & -1 & 0 & 0 & 1 \\ 2 & -1 & 0 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1341) \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1342) \begin{pmatrix} 0 & -1 & 0 & 0 & 1 \\ 0 & -1 & 0 & 1 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1343) \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & -1 \\ -1 & 0 & -1 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1344) \begin{pmatrix} -2 & 1 & -2 & 1 & -1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1345) \begin{pmatrix} -2 & 1 & -1 & 0 & 0 \\ -2 & 1 & -1 & 0 & -1 \\ -1 & 0 & -1 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1346) \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 0 & -1 & 0 & 0 & 2 \\ 1 & -2 & 0 & 1 & 2 \\ 0 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 0 & 1 \end{pmatrix}$$

$$(1347) \begin{pmatrix} 0 & -1 & 0 & 0 & 1 \\ 0 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & -1 & 0 & 0 & 2 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1348) \begin{pmatrix} -1 & -1 & -1 & 3 & -1 \\ -1 & 0 & -1 & 1 & 0 \\ 0 & -1 & 0 & 1 & 0 \\ -1 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \end{pmatrix}$$

$$(1349) \quad \begin{pmatrix} -1 & -1 & -1 & 3 & -1 \\ 0 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 1 & 0 \\ -1 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \end{pmatrix}$$

$$(1350) \quad \begin{pmatrix} -1 & -1 & -1 & 3 & -1 \\ 0 & -1 & 0 & 2 & -1 \\ -1 & 0 & -1 & 2 & -1 \\ -1 & -1 & 0 & 2 & 0 \\ 0 & 0 & -1 & 1 & 0 \end{pmatrix}$$

$$(1351) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 2 & -1 & 1 & -1 & 1 \\ 3 & -2 & 1 & 0 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 2 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1352) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 2 & -1 & 0 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1353) \quad \begin{pmatrix} 1 & -2 & 0 & 1 & 2 \\ 1 & -2 & 1 & 1 & 1 \\ 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 1 & 0 \end{pmatrix}$$

$$(1354) \quad \begin{pmatrix} 1 & -2 & 1 & 0 & 1 \\ 1 & -2 & 1 & 1 & 0 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1355) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 1 & 1 & 0 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1356) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 1 & 0 & 1 \\ 1 & -2 & 1 & 1 & 0 \\ 1 & -1 & 0 & 0 & 1 \\ 0 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1357) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 1 & 0 & 1 \\ 1 & -2 & 1 & 1 & 0 \\ 0 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1358) \quad \begin{pmatrix} 0 & -1 & 0 & 0 & 1 \\ 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 1 & 0 & 1 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(1359) \quad \begin{pmatrix} 1 & -2 & 0 & 1 & 2 \\ 1 & -2 & 1 & 1 & 1 \\ 0 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 1 & 0 \end{pmatrix}$$

$$(1360) \quad \begin{pmatrix} 1 & -2 & 0 & 1 & 2 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -2 & 1 & 1 & 1 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 1 & 0 \end{pmatrix}$$

$$(1361) \quad \begin{pmatrix} 0 & -1 & 0 & 0 & 2 \\ 1 & -2 & 0 & 1 & 2 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 2 \\ 0 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1362) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 0 & 1 & 2 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -2 & 1 & 1 & 1 \\ 0 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1363) \quad \begin{pmatrix} 0 & -1 & 0 & 0 & 2 \\ 1 & -2 & 0 & 1 & 2 \\ 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & 1 \\ 0 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1364) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & -1 \\ 0 & -1 & 1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1365) \quad \begin{pmatrix} -1 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 1 & 0 \\ -1 & 0 & -1 & 1 & 0 \\ -1 & 0 & -1 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1366) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & -1 \\ -1 & -1 & 0 & 2 & -2 \\ 0 & -1 & 1 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1367) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ -1 & -1 & 0 & 2 & -1 \\ -1 & 0 & -1 & 1 & -1 \\ -1 & -1 & 0 & 2 & -2 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1368) \quad \begin{pmatrix} -1 & -1 & -1 & 3 & -1 \\ -1 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 2 & -1 \\ -1 & -1 & 0 & 2 & 0 \end{pmatrix}$$

$$(1369) \quad \begin{pmatrix} -2 & 1 & 0 & 0 & -1 \\ -3 & 2 & -1 & 0 & -1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(1370) \quad \begin{pmatrix} -2 & 1 & -2 & 1 & -1 \\ -2 & 1 & -1 & 0 & 0 \\ -2 & 1 & -1 & 1 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(1371) \quad \begin{pmatrix} -2 & 1 & -2 & 1 & -1 \\ -1 & 0 & -1 & 1 & 0 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1372) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & 0 & 1 & -2 \\ -2 & 1 & -1 & 0 & -1 \\ -1 & 0 & -1 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1373) \quad \begin{pmatrix} 1 & 1 & 0 & -2 & 0 \\ 0 & 1 & 0 & -2 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1374) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & -1 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1375) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 2 & -1 & -1 & -2 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1376) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & -1 \\ -1 & 2 & -1 & -1 & -2 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1377) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 2 & -1 & -1 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 2 & -1 & -1 & -2 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1378) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & -1 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

(1379)
$$\begin{pmatrix} 0 & 1 & -1 & -1 & 0 \\ -1 & 1 & -1 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(1380)
$$\begin{pmatrix} -2 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(1381)
$$\begin{pmatrix} 1 & 0 & 0 & -1 & 0 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(1382)
$$\begin{pmatrix} 2 & -1 & 0 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(1383)
$$\begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 2 & -1 & -1 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

(1384)
$$\begin{pmatrix} -1 & 1 & -1 & 0 & -1 \\ -1 & 2 & -1 & -1 & -2 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 1 & -1 & 0 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(1385) $\begin{pmatrix} -1 & 2 & -1 & -1 & -1 \\ -1 & 2 & -1 & -1 & -2 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$

(1386) $\begin{pmatrix} -1 & 2 & -1 & -1 & -1 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$

(1387) $\begin{pmatrix} -1 & 2 & -1 & -1 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$

(1388) $\begin{pmatrix} -1 & 0 & -1 & 1 & -1 \\ -2 & 1 & -1 & 0 & -1 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(1389) $\begin{pmatrix} -1 & 0 & -1 & 1 & -1 \\ 0 & -1 & 0 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(1390) $\begin{pmatrix} 0 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

$$(1391) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & -1 \\ 0 & -1 & 0 & 2 & -2 \\ 1 & -1 & 0 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1392) \quad \begin{pmatrix} -1 & -1 & 0 & 2 & -2 \\ -1 & 0 & 0 & 1 & -2 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1393) \quad \begin{pmatrix} -1 & 0 & -1 & 1 & -1 \\ -1 & 0 & 0 & 1 & -2 \\ -1 & 1 & -1 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1394) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 0 & 0 & 1 & -2 \\ -1 & 1 & -1 & 1 & -3 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1395) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & -1 & 0 & 2 & -2 \\ -1 & 0 & 0 & 1 & -2 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1396) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & -1 & 1 & -1 \\ -1 & 1 & -1 & 1 & -2 \\ -1 & 1 & -1 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1397) \quad \begin{pmatrix} -2 & 1 & -2 & 1 & -1 \\ -2 & 1 & -1 & 1 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1398) \quad \begin{pmatrix} -1 & 1 & -1 & 1 & -2 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & 1 & -3 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(1399) \quad \begin{pmatrix} -2 & 1 & -1 & 1 & -1 \\ -1 & 1 & -1 & 1 & -2 \\ -1 & 1 & 0 & 0 & -1 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(1400) \quad \begin{pmatrix} -1 & 1 & -1 & 0 & -1 \\ -2 & 1 & 0 & 0 & -2 \\ -1 & 1 & 0 & -1 & -1 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1401) \quad \begin{pmatrix} 0 & 0 & 1 & 0 & -1 \\ -1 & 1 & 0 & -1 & -1 \\ -2 & 1 & 0 & 0 & -2 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1402) \quad \begin{pmatrix} -1 & 1 & -1 & 0 & -1 \\ -1 & 2 & -1 & -1 & -2 \\ -1 & 1 & 0 & -1 & -1 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1403) \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 2 & -1 & -1 & -2 \\ -1 & 1 & 0 & -1 & -1 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 1 & 0 & -1 & -1 \end{pmatrix}$$

$$(1404) \begin{pmatrix} -1 & 2 & -1 & -1 & -1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 2 & -1 & -1 & -2 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 1 & 0 & -1 & -1 \end{pmatrix}$$

$$(1405) \begin{pmatrix} -2 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -2 & 1 & 0 & 0 & -2 \\ -1 & 0 & 0 & 1 & -2 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1406) \begin{pmatrix} -2 & 1 & -1 & 0 & -1 \\ -1 & 0 & 0 & 1 & -2 \\ -2 & 1 & 0 & 0 & -2 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1407) \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & 1 & -3 \\ -1 & 0 & 0 & 1 & -2 \\ -1 & 1 & 0 & 0 & -2 \end{pmatrix}$$

$$(1408) \begin{pmatrix} 1 & 1 & 0 & -2 & 0 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1409) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & -1 \\ -1 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1410) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & -1 \\ -1 & 1 & 0 & -2 & 0 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1411) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & -1 \\ -1 & 1 & 0 & -2 & 0 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(1412) \quad \begin{pmatrix} 1 & -1 & 1 & 0 & 0 \\ 2 & -1 & 0 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1413) \quad \begin{pmatrix} 0 & -1 & 1 & 0 & 0 \\ 0 & 0 & 1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1414) \quad \begin{pmatrix} 0 & 0 & 1 & -1 & 0 \\ 0 & -1 & 1 & 0 & 0 \\ 1 & -1 & 1 & -1 & 0 \\ 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(1415) $\begin{pmatrix} 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 1 & -1 & 0 \\ 0 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(1416) $\begin{pmatrix} 0 & 0 & 1 & -1 & 0 \\ 1 & -1 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(1417) $\begin{pmatrix} 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(1418) $\begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & -1 \\ -1 & 1 & 0 & -2 & 0 \\ -1 & 1 & -1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$

(1419) $\begin{pmatrix} -1 & 2 & -1 & -1 & -1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 2 & -1 & -1 & -2 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -2 \end{pmatrix}$

(1420) $\begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & 0 & -1 & -1 \\ -2 & 1 & 0 & 0 & -2 \\ -1 & 1 & 0 & 0 & -2 \end{pmatrix}$

$$(1421) \quad \begin{pmatrix} -2 & 1 & 0 & 0 & -1 \\ -1 & 1 & 0 & -1 & 0 \\ -2 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -2 & 1 & 0 & 0 & -2 \end{pmatrix}$$

$$(1422) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -2 & 1 & -1 & 0 & -1 \\ -1 & 1 & 0 & -1 & -1 \\ -2 & 1 & 0 & 0 & -2 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1423) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & -1 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1424) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & -1 \\ -1 & -1 & 0 & 2 & -2 \\ 0 & -1 & 1 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1425) \quad \begin{pmatrix} -1 & 0 & -1 & 1 & -1 \\ -1 & -1 & 0 & 2 & -2 \\ -1 & 0 & 0 & 1 & -2 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1426) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & -1 \\ -1 & -1 & 0 & 2 & -2 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & -1 & 1 & 1 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1427) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & -1 \\ 0 & -1 & 1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1428) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & -1 \\ 1 & -2 & 1 & 1 & -1 \\ 0 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1429) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & -1 \\ 1 & -2 & 1 & 1 & -1 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1430) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 0 & 0 & 1 & -2 \\ -2 & 1 & 0 & 0 & -2 \end{pmatrix}$$

$$(1431) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1432) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 0 & 3 & -2 \\ 0 & -1 & 0 & 2 & -2 \\ 1 & -1 & 0 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1433) \quad \begin{pmatrix} -1 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1434) \quad \begin{pmatrix} -1 & 0 & -1 & 1 & 0 \\ -1 & -1 & 0 & 2 & -1 \\ -1 & -1 & -1 & 3 & -1 \\ 0 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1435) \quad \begin{pmatrix} -1 & -1 & 0 & 2 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & -1 & 0 & 2 & -2 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1436) \quad \begin{pmatrix} -1 & -1 & 0 & 2 & -1 \\ -1 & 0 & -1 & 1 & 0 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & -1 & -1 & 3 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1437) \quad \begin{pmatrix} -2 & 1 & -2 & 1 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & -1 & 1 & -1 \\ -1 & 0 & -1 & 1 & 0 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1438) \quad \begin{pmatrix} 1 & -2 & 0 & 3 & -2 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 \end{pmatrix}$$

$$(1439) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 0 & 3 & -2 \\ 1 & -2 & 1 & 2 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 0 & 1 & -1 \end{pmatrix}$$

$$(1440) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 0 & 3 & -2 \\ 0 & -1 & 0 & 2 & -1 \\ 1 & -2 & 1 & 2 & -1 \\ 1 & -1 & 0 & 1 & 0 \end{pmatrix}$$

$$(1441) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 0 & 3 & -2 \\ 0 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(1442) \quad \begin{pmatrix} 1 & -2 & 1 & 1 & 0 \\ 1 & -2 & 1 & 1 & -1 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1443) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 1 & 1 & 0 \\ 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1444) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 1 & 1 & 0 \\ 1 & -2 & 1 & 1 & -1 \\ 1 & -1 & 0 & 1 & -1 \\ 0 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(1445) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & -1 \\ 1 & -2 & 1 & 1 & -1 \\ 0 & -1 & 1 & 1 & -1 \\ 0 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(1446) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 1 & 1 & 0 \\ 1 & -2 & 1 & 1 & -1 \\ 0 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1447) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ -1 & -1 & 0 & 2 & -1 \\ -1 & -1 & 0 & 2 & -2 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(1448) \quad \begin{pmatrix} -1 & -1 & 0 & 2 & -1 \\ -1 & -1 & -1 & 3 & -1 \\ -1 & 0 & -1 & 1 & 0 \\ -1 & -1 & 0 & 2 & 0 \\ -1 & 0 & 0 & 1 & -1 \end{pmatrix}$$

$$(1449) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & -1 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1450) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 0 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1451) \begin{pmatrix} 2 & -1 & 0 & -1 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 0 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1452) \begin{pmatrix} 2 & -1 & 0 & -1 & 1 \\ 2 & -1 & 0 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1453) \begin{pmatrix} 1 & 1 & 0 & -3 & 1 \\ 1 & 1 & 0 & -2 & 0 \\ 0 & 1 & 0 & -2 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1454) \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -3 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1455) \begin{pmatrix} 1 & 1 & 0 & -3 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1456) \begin{pmatrix} -1 & 1 & 0 & -2 & 1 \\ -1 & 2 & -1 & -3 & 2 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1457) \begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ -1 & 2 & -1 & -3 & 2 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & -1 & -1 & 1 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1458) \begin{pmatrix} -1 & 1 & 0 & -2 & 1 \\ -1 & 1 & 0 & -1 & 0 \\ 0 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1459) \begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 2 & -1 & -3 & 2 \\ -1 & 2 & -1 & -2 & 1 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1460) \begin{pmatrix} -1 & 1 & 0 & -2 & 1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 2 & -1 & -3 & 2 \\ 0 & 1 & 0 & -2 & 1 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1461) \begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1462) \begin{pmatrix} 1 & 0 & 1 & -2 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \end{pmatrix}$$

$$(1463) \quad \begin{pmatrix} 1 & 1 & 0 & -3 & 1 \\ 1 & 0 & 1 & -2 & 1 \\ 1 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1464) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -3 & 1 \\ 1 & 0 & 1 & -2 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1465) \quad \begin{pmatrix} 1 & 1 & 0 & -3 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ 1 & 0 & 1 & -2 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -2 & 0 \end{pmatrix}$$

$$(1466) \quad \begin{pmatrix} 1 & 1 & 0 & -3 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ 1 & 0 & 1 & -2 & 1 \\ 1 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(1467) \quad \begin{pmatrix} 1 & 1 & 0 & -3 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ 1 & 1 & 0 & -2 & 0 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(1468) \quad \begin{pmatrix} 2 & -1 & 0 & -1 & 1 \\ 2 & -1 & 1 & -1 & 1 \\ 2 & -1 & 0 & 0 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1469) \quad \begin{pmatrix} 2 & -1 & 1 & -2 & 2 \\ 1 & 0 & 1 & -2 & 1 \\ 2 & -1 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1470) \quad \begin{pmatrix} 2 & -1 & 1 & -2 & 2 \\ 2 & -1 & 0 & -1 & 1 \\ 2 & -1 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1471) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & -2 & 2 \\ 1 & 0 & 1 & -2 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1472) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & -2 & 2 \\ 1 & 0 & 1 & -2 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \end{pmatrix}$$

$$(1473) \quad \begin{pmatrix} 1 & -1 & 1 & -1 & 1 \\ 2 & -1 & 1 & -2 & 2 \\ 1 & 0 & 1 & -2 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(1474) \quad \begin{pmatrix} 1 & 1 & 0 & -3 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ 1 & 0 & 1 & -2 & 1 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(1475) \quad \begin{pmatrix} 1 & -1 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 1 & -1 & 0 \\ 0 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1476) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & -1 & 1 & -1 & 1 \\ 1 & 0 & 1 & -2 & 1 \\ 0 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1477) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & -1 & 1 & -1 & 1 \\ 1 & -1 & 1 & -1 & 0 \\ 0 & -1 & 1 & 0 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(1478) \quad \begin{pmatrix} 1 & -1 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 1 & -1 & 0 \\ 0 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1479) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(1480) \quad \begin{pmatrix} -1 & 1 & 0 & -2 & 1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -2 & 0 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(1481) \quad \begin{pmatrix} -1 & 2 & -1 & -3 & 2 \\ 0 & 1 & 0 & -2 & 1 \\ -1 & 2 & -1 & -2 & 1 \\ -1 & 1 & 0 & -2 & 2 \\ -1 & 1 & 0 & -1 & 0 \end{pmatrix}$$

$$(1482) \quad \begin{pmatrix} -1 & 2 & -1 & -3 & 2 \\ -1 & 1 & -1 & -1 & 1 \\ -1 & 2 & -1 & -2 & 1 \\ -1 & 1 & 0 & -2 & 2 \\ -1 & 1 & 0 & -1 & 0 \end{pmatrix}$$

$$(1483) \quad \begin{pmatrix} -1 & 2 & -1 & -3 & 2 \\ -1 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ -1 & 1 & 0 & -2 & 2 \\ -1 & 1 & 0 & -1 & 0 \end{pmatrix}$$

$$(1484) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1485) \quad \begin{pmatrix} 0 & -1 & 0 & 0 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1486) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & -1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1487) \quad \begin{pmatrix} -2 & 1 & -1 & 0 & 0 \\ -2 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1488) \quad \begin{pmatrix} -2 & 1 & -1 & 0 & 0 \\ -2 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & -1 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1489) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 0 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & -1 & 3 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & -1 & 0 & 1 \end{pmatrix}$$

$$(1490) \quad \begin{pmatrix} 0 & -1 & 0 & 0 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & -1 & 0 & 0 & 2 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1491) \quad \begin{pmatrix} -1 & 2 & -1 & -3 & 2 \\ -1 & 1 & -1 & -1 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \end{pmatrix}$$

$$(1492) \quad \begin{pmatrix} -1 & 2 & -1 & -3 & 2 \\ 0 & 1 & 0 & -2 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \end{pmatrix}$$

$$(1493) \quad \begin{pmatrix} -1 & 2 & -1 & -3 & 2 \\ 0 & 1 & 0 & -2 & 1 \\ -1 & 2 & -1 & -2 & 1 \\ -1 & 1 & 0 & -2 & 2 \\ 0 & 1 & -1 & -1 & 1 \end{pmatrix}$$

$$(1494) \quad \begin{pmatrix} 1 & -1 & 0 & -1 & 3 \\ 1 & -1 & 1 & -1 & 2 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & -1 & 2 \\ 1 & 0 & 0 & -1 & 1 \end{pmatrix}$$

$$(1495) \quad \begin{pmatrix} 2 & -1 & 0 & -1 & 1 \\ 1 & -1 & 0 & 0 & 1 \\ 2 & -1 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 2 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1496) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & -2 & 2 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 1 & -1 & 2 \\ 1 & 0 & 0 & -1 & 1 \end{pmatrix}$$

$$(1497) \quad \begin{pmatrix} 2 & -1 & 0 & -1 & 1 \\ 2 & -1 & 1 & -2 & 2 \\ 1 & -1 & 0 & 0 & 1 \\ 2 & -1 & 1 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \end{pmatrix}$$

$$(1498) \quad \begin{pmatrix} 1 & -1 & 1 & -1 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & -2 & 2 \\ 1 & -1 & 1 & -1 & 2 \\ 0 & 0 & 1 & -1 & 1 \end{pmatrix}$$

$$(1499) \begin{pmatrix} 1 & -1 & 1 & -1 & 1 \\ 2 & -1 & 1 & -2 & 2 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 1 & -1 & 2 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(1500) \begin{pmatrix} 2 & -1 & 0 & -1 & 1 \\ 2 & -1 & 1 & -2 & 2 \\ 1 & -1 & 0 & 0 & 1 \\ 2 & -1 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(1501) \begin{pmatrix} 1 & -1 & 0 & -1 & 3 \\ 1 & -1 & 1 & -1 & 2 \\ 0 & 0 & 0 & -1 & 2 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & 0 & 0 & -1 & 1 \end{pmatrix}$$

$$(1502) \begin{pmatrix} 1 & -1 & 0 & -1 & 3 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 1 & -1 & 2 \\ 1 & -1 & 0 & 0 & 2 \\ 1 & 0 & 0 & -1 & 1 \end{pmatrix}$$

$$(1503) \begin{pmatrix} 1 & -2 & 1 & 0 & 1 \\ 1 & -1 & 1 & -1 & 1 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1504) \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & -2 & 1 & 0 & 1 \\ 1 & -1 & 1 & -1 & 1 \\ 1 & -1 & 0 & 0 & 1 \\ 0 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1505) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & -2 & 1 & 0 & 1 \\ 1 & -1 & 1 & -1 & 1 \\ 0 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1506) \quad \begin{pmatrix} 0 & -1 & 0 & 0 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 1 & -2 & 1 & 0 & 1 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 0 & 0 \end{pmatrix}$$

$$(1507) \quad \begin{pmatrix} 0 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & -1 & 3 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 2 \\ 0 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1508) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & -1 & 0 & -1 & 3 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 1 & -1 & 2 \\ 0 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1509) \quad \begin{pmatrix} 0 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & -1 & 3 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & -1 & 2 \\ 0 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1510) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & -1 & 1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1511) \quad \begin{pmatrix} -1 & 2 & -1 & -3 & 2 \\ -1 & 1 & 0 & -2 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ -1 & 1 & 0 & -2 & 2 \end{pmatrix}$$

$$(1512) \quad \begin{pmatrix} -1 & 1 & 0 & -2 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & -1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1513) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & 1 & -1 & 0 \\ -1 & 1 & 0 & -2 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1514) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & 0 & -2 & 1 \\ -1 & 1 & 0 & -2 & 0 \\ -1 & 1 & -1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1515) \quad \begin{pmatrix} -2 & 1 & 0 & 0 & -1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -2 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(1516) \quad \begin{pmatrix} -2 & 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & -1 & 0 \\ -2 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1517) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & -1 \\ -2 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1518) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1519) \quad \begin{pmatrix} -2 & 1 & -1 & 0 & 0 \\ -2 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 0 & 0 \end{pmatrix}$$

$$(1520) \quad \begin{pmatrix} 0 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 1 \\ 0 & -1 & 0 & 0 & 2 \\ 0 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 0 & 1 \end{pmatrix}$$

$$(1521) \quad \begin{pmatrix} -1 & -1 & 0 & 2 & -1 \\ -1 & -1 & -1 & 3 & -1 \\ -1 & 0 & -1 & 1 & 0 \\ 0 & -1 & 0 & 1 & 0 \\ -1 & -1 & 0 & 2 & 0 \end{pmatrix}$$

$$(1522) \quad \begin{pmatrix} 2 & -1 & 0 & -1 & 1 \\ 1 & -1 & 0 & 0 & 1 \\ 2 & -1 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 2 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1523) \quad \begin{pmatrix} 2 & -1 & 0 & -1 & 1 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 2 & -1 & 0 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1524) \quad \begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 1 & -2 & 0 & 1 & 2 \\ 1 & -2 & 1 & 1 & 1 \\ 0 & -1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 1 & 0 \end{pmatrix}$$

$$(1525) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 1 & 0 & 1 \\ 1 & -2 & 1 & 1 & 0 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1526) \quad \begin{pmatrix} 0 & -1 & 0 & 0 & 1 \\ 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 1 & 0 & 1 \\ 1 & -1 & 0 & 0 & 1 \\ 0 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1527) \quad \begin{pmatrix} 0 & -1 & 0 & 0 & 1 \\ 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 1 & 0 & 1 \\ 0 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1528) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 0 & 2 \\ 1 & -2 & 0 & 1 & 2 \\ 1 & -1 & 0 & 0 & 1 \\ 0 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1529) \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ -1 & 0 & -1 & 1 & -1 \\ 0 & -1 & 0 & 1 & -1 \\ -1 & -1 & 0 & 2 & -2 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(1530) \begin{pmatrix} -2 & 1 & 0 & 0 & -1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(1531) \begin{pmatrix} -2 & 1 & -2 & 1 & -1 \\ -2 & 1 & -1 & 0 & 0 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & -1 & 1 & -1 \\ -1 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(1532) \begin{pmatrix} -1 & 0 & -1 & 1 & -1 \\ -2 & 1 & -1 & 0 & -1 \\ -1 & 0 & 0 & 1 & -2 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1533) \begin{pmatrix} 0 & 1 & 0 & -2 & 0 \\ 0 & 1 & -1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1534) \begin{pmatrix} -1 & 1 & 0 & -1 & -1 \\ -1 & 1 & 0 & -2 & 0 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1535) \begin{pmatrix} -1 & 1 & 0 & -1 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1536) \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & 0 & -1 & -1 \\ -1 & 2 & -1 & -1 & -2 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1537) \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & -1 \\ -1 & 1 & 0 & -2 & 0 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1538) \begin{pmatrix} -1 & 1 & -1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1539) \begin{pmatrix} -2 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1540) \begin{pmatrix} 1 & -1 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1541) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & -1 & 0 & 0 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1542) \quad \begin{pmatrix} -1 & 2 & -1 & -1 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 2 & -1 & -1 & -2 \\ -1 & 1 & 0 & 0 & -2 \\ 0 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(1543) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1544) \quad \begin{pmatrix} -1 & -1 & 0 & 2 & -2 \\ 0 & -1 & 0 & 1 & -1 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1545) \quad \begin{pmatrix} -1 & 0 & -1 & 1 & -1 \\ -1 & -1 & 0 & 2 & -2 \\ -1 & 0 & 0 & 1 & -2 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1546) \quad \begin{pmatrix} -2 & 1 & -1 & 0 & -1 \\ -1 & 0 & -1 & 1 & -1 \\ -1 & 0 & 0 & 1 & -2 \\ -1 & 1 & -1 & 0 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(1547)
$$\begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & -1 & 1 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 0 & 0 & 1 & -2 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

(1548)
$$\begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & -1 & 1 & -1 \\ -1 & -1 & 0 & 2 & -2 \\ -1 & 0 & 0 & 1 & -2 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

(1549)
$$\begin{pmatrix} -2 & 1 & -2 & 1 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -2 & 1 & -1 & 1 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

(1550)
$$\begin{pmatrix} -2 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -2 & 1 & 0 & 0 & -2 \\ -1 & 1 & 0 & -1 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(1551)
$$\begin{pmatrix} -2 & 1 & -1 & 0 & -1 \\ -1 & 1 & 0 & -1 & -1 \\ -2 & 1 & 0 & 0 & -2 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(1552)
$$\begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 2 & -1 & -1 & -2 \\ -1 & 1 & 0 & -1 & -1 \\ -1 & 1 & 0 & 0 & -2 \end{pmatrix}$$

(1553) $\begin{pmatrix} 0 & 0 & 1 & -1 & 0 \\ 0 & 1 & 0 & -2 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(1554) $\begin{pmatrix} 0 & 0 & 1 & -1 & 0 \\ -1 & 1 & 0 & -2 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(1555) $\begin{pmatrix} -1 & 1 & 0 & -1 & -1 \\ -1 & 1 & 0 & -2 & 0 \\ -1 & 1 & -1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(1556) $\begin{pmatrix} 0 & 0 & 1 & -1 & 0 \\ 0 & 1 & 0 & -2 & 0 \\ -1 & 1 & 0 & -2 & 0 \\ 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(1557) $\begin{pmatrix} 0 & -1 & 1 & 0 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(1558) $\begin{pmatrix} 0 & -1 & 1 & 0 & 0 \\ 1 & -1 & 1 & -1 & 0 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

$$(1559) \quad \begin{pmatrix} 1 & -1 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1560) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -2 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & 0 & -1 & -1 \\ -2 & 1 & 0 & 0 & -2 \end{pmatrix}$$

$$(1561) \quad \begin{pmatrix} -1 & 0 & -1 & 1 & -1 \\ 0 & -1 & 0 & 1 & -1 \\ -1 & -1 & 0 & 2 & -2 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1562) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & -1 \\ 0 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1563) \quad \begin{pmatrix} -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & -1 & 1 & -1 \\ -2 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 0 & 0 & 1 & -2 \end{pmatrix}$$

$$(1564) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & -1 \\ 0 & -1 & 0 & 2 & -2 \\ 1 & -1 & 0 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1565) \quad \begin{pmatrix} -1 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 1 & 0 \\ -1 & -1 & 0 & 2 & -2 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1566) \quad \begin{pmatrix} -1 & 0 & -1 & 1 & 0 \\ -1 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 1 & 0 \\ -1 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1567) \quad \begin{pmatrix} -1 & -1 & 0 & 2 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & -1 & 1 & -1 \\ -1 & -1 & 0 & 2 & -2 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1568) \quad \begin{pmatrix} -1 & -1 & 0 & 2 & -1 \\ -1 & 0 & -1 & 1 & 0 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1569) \quad \begin{pmatrix} -2 & 1 & -2 & 1 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & -1 & 1 & 0 \\ -1 & 0 & -1 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1570) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 0 & 3 & -2 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 0 & 1 & -1 \end{pmatrix}$$

$$(1571) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 1 & 1 & 0 \\ 1 & -2 & 1 & 1 & -1 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1572) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & -1 \\ 1 & -2 & 1 & 1 & -1 \\ 1 & -1 & 0 & 1 & -1 \\ 0 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(1573) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & -1 \\ 1 & -2 & 1 & 1 & -1 \\ 0 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1574) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & -1 \\ -1 & -1 & 0 & 2 & -2 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & -1 & 1 & 1 & -1 \end{pmatrix}$$

$$(1575) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1576) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -3 & 1 \\ 0 & 1 & 0 & -2 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1577) \quad \begin{pmatrix} -1 & 1 & 0 & -2 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1578) \quad \begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & 0 & -2 & 1 \\ -1 & 2 & -1 & -3 & 2 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1579) \quad \begin{pmatrix} -1 & 1 & 0 & -2 & 1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -2 & 0 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1580) \quad \begin{pmatrix} -1 & 1 & 0 & -2 & 1 \\ -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 2 & -1 & -3 & 2 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1581) \quad \begin{pmatrix} -1 & 1 & 0 & -2 & 1 \\ -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & -1 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1582) \quad \begin{pmatrix} 1 & 1 & 0 & -3 & 1 \\ 1 & 0 & 1 & -2 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ 1 & 0 & 0 & -1 & 1 \end{pmatrix}$$

(1583) $\begin{pmatrix} 1 & 1 & 0 & -3 & 1 \\ 1 & 1 & 0 & -2 & 0 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$

(1584) $\begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -3 & 1 \\ 1 & 0 & 1 & -2 & 1 \\ 0 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$

(1585) $\begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -3 & 1 \\ 0 & 1 & 0 & -2 & 1 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$

(1586) $\begin{pmatrix} 2 & -1 & 0 & -1 & 1 \\ 2 & -1 & 0 & 0 & 0 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$

(1587) $\begin{pmatrix} 2 & -1 & 1 & -2 & 2 \\ 2 & -1 & 0 & -1 & 1 \\ 2 & -1 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$

(1588) $\begin{pmatrix} 1 & -1 & 1 & -1 & 1 \\ 2 & -1 & 1 & -2 & 2 \\ 1 & 0 & 1 & -2 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$

$$(1589) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & -2 & 2 \\ 2 & -1 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1590) \quad \begin{pmatrix} 1 & -1 & 1 & -1 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & -2 & 2 \\ 1 & 0 & 1 & -2 & 1 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1591) \quad \begin{pmatrix} 1 & -1 & 1 & -1 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & -2 & 2 \\ 1 & 0 & 1 & -2 & 1 \\ 0 & 0 & 1 & -1 & 1 \end{pmatrix}$$

$$(1592) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & -1 & 1 & -1 & 1 \\ 1 & -1 & 1 & -1 & 0 \\ 0 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1593) \quad \begin{pmatrix} 1 & -1 & 1 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1594) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & 1 & -1 & 0 \\ 0 & -1 & 1 & 0 & 0 \\ 1 & -1 & 1 & -1 & 0 \\ 0 & 0 & 0 & -1 & 0 \end{pmatrix}$$

(1595) $\begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & -1 & 1 & -1 & 1 \\ 1 & -1 & 1 & -1 & 0 \\ 0 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$

(1596) $\begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & 0 & -2 & 1 \\ -1 & 1 & 0 & -2 & 0 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$

(1597) $\begin{pmatrix} -1 & 1 & 0 & -2 & 1 \\ -1 & 2 & -1 & -3 & 2 \\ -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & 0 & -2 & 2 \\ -1 & 1 & 0 & -1 & 0 \end{pmatrix}$

(1598) $\begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \end{pmatrix}$

(1599) $\begin{pmatrix} 0 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 1 \\ 0 & -1 & 0 & 0 & 2 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & -1 & 0 & 1 \end{pmatrix}$

(1600) $\begin{pmatrix} -1 & 1 & 0 & -2 & 1 \\ -1 & 2 & -1 & -3 & 2 \\ -1 & 1 & -1 & -1 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & 0 & -2 & 2 \end{pmatrix}$

(1601) $\begin{pmatrix} 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & -1 & 3 \\ 1 & -1 & 1 & -1 & 2 \\ 0 & 0 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 1 \end{pmatrix}$

(1602) $\begin{pmatrix} 1 & -1 & 1 & -1 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & -2 & 2 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 1 & -1 & 2 \end{pmatrix}$

(1603) $\begin{pmatrix} 2 & -1 & 0 & -1 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & -2 & 2 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & 0 & 0 & -1 & 1 \end{pmatrix}$

(1604) $\begin{pmatrix} 2 & -1 & 0 & -1 & 1 \\ 1 & -1 & 1 & -1 & 1 \\ 2 & -1 & 1 & -2 & 2 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 1 & 0 & 0 \end{pmatrix}$

(1605) $\begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & -2 & 1 & 0 & 1 \\ 1 & -1 & 1 & -1 & 1 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$

(1606) $\begin{pmatrix} 0 & -1 & 0 & 0 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 1 & -2 & 1 & 0 & 1 \\ 1 & -1 & 0 & 0 & 1 \\ 0 & -1 & 1 & 0 & 1 \end{pmatrix}$

$$(1607) \begin{pmatrix} 0 & -1 & 0 & 0 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 1 & -2 & 1 & 0 & 1 \\ 0 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1608) \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & -1 & 3 \\ 1 & -1 & 0 & 0 & 1 \\ 0 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1609) \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & 0 & -2 & 0 \\ -1 & 1 & -1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1610) \begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & -1 \\ -2 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1611) \begin{pmatrix} -2 & 1 & -1 & 0 & -1 \\ -1 & 1 & 0 & -1 & -1 \\ -1 & 1 & -1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1612) \begin{pmatrix} 1 & -1 & 1 & -1 & 1 \\ 2 & -1 & 0 & -1 & 1 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1613) \quad \begin{pmatrix} 0 & -1 & 0 & 0 & 1 \\ 0 & -1 & 0 & 1 & 0 \\ 1 & -2 & 1 & 0 & 1 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1614) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 \\ 0 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1615) \quad \begin{pmatrix} 0 & -1 & 0 & 0 & 1 \\ 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 0 & 1 \\ 0 & -1 & 1 & 0 & 1 \end{pmatrix}$$

$$(1616) \quad \begin{pmatrix} -2 & 1 & -1 & 0 & 0 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & -1 & 1 & -1 \\ -2 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & 0 & -1 \end{pmatrix}$$

$$(1617) \quad \begin{pmatrix} -1 & 1 & 0 & -2 & 0 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(1618) \quad \begin{pmatrix} -1 & 1 & 0 & -1 & -1 \\ -1 & 1 & 0 & -2 & 0 \\ -1 & 1 & -1 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

(1619) $\begin{pmatrix} -2 & 1 & -1 & 0 & -1 \\ -1 & 1 & 0 & -1 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(1620) $\begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & -1 & 0 & -1 \\ -1 & 1 & 0 & -1 & -1 \\ -1 & 1 & -1 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$

(1621) $\begin{pmatrix} -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -1 & -1 \\ -1 & 1 & 0 & -2 & 0 \\ -1 & 1 & -1 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$

(1622) $\begin{pmatrix} -1 & 0 & -1 & 1 & -1 \\ -1 & -1 & 0 & 2 & -2 \\ 0 & -1 & 0 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(1623) $\begin{pmatrix} -2 & 1 & -2 & 1 & -1 \\ -1 & 0 & 0 & 1 & -1 \\ -1 & 0 & -1 & 1 & -1 \\ -1 & 1 & -1 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$

(1624) $\begin{pmatrix} -1 & 1 & 0 & -2 & 0 \\ -1 & 1 & -1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(1625) $\begin{pmatrix} 0 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

(1626) $\begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ -1 & -1 & 0 & 2 & -2 \\ 0 & -1 & 0 & 1 & -1 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$

(1627) $\begin{pmatrix} -1 & -1 & 0 & 2 & -1 \\ 0 & -1 & 0 & 1 & 0 \\ -1 & 0 & -1 & 1 & -1 \\ -1 & -1 & 0 & 2 & -2 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$

(1628) $\begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & -1 \\ 0 & -1 & 0 & 2 & -2 \\ 0 & -1 & 1 & 1 & -1 \\ 1 & -1 & 0 & 1 & -1 \end{pmatrix}$

(1629) $\begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & -1 \\ 1 & -2 & 1 & 1 & -1 \\ 1 & -1 & 0 & 1 & -1 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$

(1630) $\begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 1 & -1 \\ 0 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \end{pmatrix}$

$$(1631) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 1 & -1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1632) \quad \begin{pmatrix} -1 & 1 & 0 & -2 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & 0 & -2 & 0 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1633) \quad \begin{pmatrix} -1 & 1 & -1 & -1 & 1 \\ -1 & 1 & 0 & -2 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & -1 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1634) \quad \begin{pmatrix} -1 & 1 & 0 & -2 & 1 \\ -1 & 1 & 0 & -1 & 0 \\ -1 & 1 & 0 & -2 & 0 \\ -1 & 1 & -1 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1635) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -3 & 1 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1636) \quad \begin{pmatrix} 1 & -1 & 1 & -1 & 1 \\ 2 & -1 & 0 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1637) \quad \begin{pmatrix} 1 & -1 & 1 & -1 & 1 \\ 2 & -1 & 1 & -2 & 2 \\ 2 & -1 & 0 & -1 & 1 \\ 1 & -1 & 1 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1638) \quad \begin{pmatrix} 1 & -1 & 1 & -1 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & -2 & 2 \\ 2 & -1 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1639) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & 1 & -1 & 0 \\ 1 & -1 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1640) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & -1 & 1 & -1 & 1 \\ 1 & -1 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1641) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & -1 & 1 & 0 & 0 \\ 1 & -1 & 1 & -1 & 0 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1642) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & 1 & -1 & 0 \\ 0 & 1 & 0 & -2 & 0 \\ -1 & 1 & 0 & -2 & 0 \\ 0 & 0 & 0 & -1 & 0 \end{pmatrix}$$

(1643) $\begin{pmatrix} 2 & -1 & 0 & -1 & 1 \\ 1 & -1 & 1 & -1 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & -2 & 2 \\ 1 & -1 & 0 & 0 & 1 \end{pmatrix}$

(1644) $\begin{pmatrix} 0 & -1 & 0 & 0 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 1 & -2 & 1 & 0 & 1 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$

(1645) $\begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & -1 & 0 & 0 & 1 \\ 0 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \end{pmatrix}$

(1646) $\begin{pmatrix} 0 & -1 & 0 & 0 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & -1 & 0 & 0 & 2 \\ 1 & -1 & 0 & 0 & 1 \\ 0 & -1 & 1 & 0 & 1 \end{pmatrix}$

(1647) $\begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & -1 & 1 & -1 & 1 \\ 2 & -1 & 0 & -1 & 1 \\ 1 & -1 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$

(1648) $\begin{pmatrix} -1 & 1 & 0 & -2 & 0 \\ -1 & 1 & -1 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

$$(1649) \quad \begin{pmatrix} 0 & -1 & 0 & 1 & 0 \\ -1 & 0 & -1 & 1 & -1 \\ -1 & -1 & 0 & 2 & -2 \\ 0 & -1 & 0 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 \end{pmatrix}$$

$$(1650) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & 0 & -2 & 0 \\ 0 & 1 & 0 & -2 & 0 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1651) \quad \begin{pmatrix} -1 & 1 & 0 & -2 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & 0 & -2 & 0 \\ -1 & 1 & -1 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \end{pmatrix}$$

$$(1652) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & 1 & -1 & 0 \\ 0 & 1 & 0 & -2 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1653) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & -1 & 1 & -1 & 1 \\ 2 & -1 & 0 & -1 & 1 \\ 1 & 0 & 0 & -1 & 0 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

$$(1654) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 1 & -1 & 1 & -1 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1655) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & -1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \end{pmatrix}$$

$$(1656) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & 0 & -2 & 0 \\ -1 & 1 & -1 & -1 & 0 \\ 0 & 1 & -1 & -1 & 0 \\ 0 & 0 & 0 & -1 & 0 \end{pmatrix}$$