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

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

with

$$I : \left\langle \begin{array}{c} \alpha_2\beta_2, \alpha_1\beta_1, \alpha_2\beta_1\alpha_1, \beta_1\alpha_1\beta_2, \alpha_2\mu_3, \alpha_1\mu_3, \nu_3\beta_2, \nu_3\beta_1, \\ \mu_3\mu_4, \nu_4\nu_3, \mu_3\nu_3 - \beta_1\alpha_1, \nu_3\mu_3 - \mu_4\nu_4 \end{array} \right\rangle.$$

Then, the complete list of g-vectors for $\mathcal{D}_5$ 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) $\begin{pmatrix} 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 \end{pmatrix}$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$(27) \quad \begin{pmatrix} 2 & 0 & -1 & 1 & 0 \\ 1 & 1 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$(44) \quad \begin{pmatrix} 2 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

$$(58) \quad \begin{pmatrix} 2 & 0 & -1 & 1 & -1 \\ 1 & 1 & -1 & 1 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

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

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

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

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

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

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

$$(65) \quad \begin{pmatrix} 1 & 0 & -1 & 1 & 0 \\ 2 & 0 & -1 & 1 & 0 \\ 1 & 1 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

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

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

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

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

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

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

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

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

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

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

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

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

$$(78) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 2 & 0 & -1 & 0 & 0 \\ 1 & 1 & -1 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$(101) \quad \begin{pmatrix} -1 & -1 & 2 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ -1 & -1 & 1 & 0 & 0 \\ -1 & 0 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 \end{pmatrix}$$

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

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

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

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

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

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

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

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

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

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

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

$$(113) \quad \begin{pmatrix} 2 & 0 & -1 & 1 & -1 \\ 1 & 1 & -1 & 1 & -1 \\ 1 & 1 & -1 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

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

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

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

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

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

(119)
$$\begin{pmatrix} -2 & 0 & 1 & 0 & 0 \\ -1 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ -1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

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

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

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

(123)
$$\begin{pmatrix} 2 & 0 & -1 & 1 & 0 \\ 2 & 0 & -1 & 1 & -1 \\ 1 & 1 & -1 & 1 & -1 \\ 0 & 0 & 0 & 1 & -1 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

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

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

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

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

$$(128) \quad \begin{pmatrix} 1 & 0 & -1 & 1 & 0 \\ 2 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 \\ 1 & -1 & 0 & 0 & 0 \end{pmatrix}$$

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

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

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

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

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

$$(134) \quad \begin{pmatrix} 0 & 0 & 0 & 1 & 0 \\ -2 & 0 & 1 & 0 & 0 \\ -1 & -1 & 1 & 0 & 0 \\ -1 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & -1 \end{pmatrix}$$

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

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

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

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

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

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

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

$$(142) \quad \begin{pmatrix} -1 & -1 & 2 & -1 & 1 \\ 0 & -1 & 1 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ 0 & -1 & 1 & 0 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

$$(143) \quad \begin{pmatrix} -1 & -1 & 2 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 \\ -1 & 0 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$(159) \quad \begin{pmatrix} -1 & -1 & 2 & -1 & 1 \\ -1 & 0 & 1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ -1 & -1 & 1 & 0 & 0 \\ -1 & 0 & 1 & 0 & 0 \end{pmatrix}$$

$$(160) \quad \begin{pmatrix} 2 & 0 & -1 & 1 & 0 \\ 2 & 0 & -1 & 1 & -1 \\ 1 & 1 & -1 & 1 & -1 \\ 1 & 1 & -1 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

$$(174) \quad \begin{pmatrix} 1 & 1 & -2 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 1 & 0 & -1 & 1 & 0 \\ 0 & 1 & -1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$(206) \quad \begin{pmatrix} -1 & -1 & 2 & -1 & 0 \\ -1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 \\ -1 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$(224) \quad \begin{pmatrix} -1 & -1 & 2 & -2 & 1 \\ 0 & -1 & 1 & -1 & 1 \\ 0 & 0 & 0 & -1 & 1 \\ 0 & -1 & 1 & -1 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

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

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

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

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

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

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

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

$$(232) \quad \begin{pmatrix} -1 & -1 & 2 & -1 & 1 \\ -1 & 0 & 1 & -1 & 1 \\ -1 & -1 & 2 & -1 & 0 \\ -1 & 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

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

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

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

$$(236) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ 2 & 0 & -1 & 0 & 0 \\ 1 & 1 & -1 & 0 & 0 \\ 1 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 \end{pmatrix}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

$$(250) \quad \begin{pmatrix} 1 & 0 & -1 & 1 & 0 \\ 2 & 0 & -1 & 1 & 0 \\ 2 & 0 & -1 & 1 & -1 \\ 1 & 1 & -1 & 1 & -1 \\ 1 & 1 & -1 & 0 & 0 \end{pmatrix}$$

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

$$(252) \quad \begin{pmatrix} 1 & 1 & -2 & 2 & -1 \\ 1 & 0 & -1 & 1 & 0 \\ 0 & 1 & -1 & 1 & 0 \\ 1 & 1 & -1 & 1 & -1 \\ 1 & 1 & -1 & 0 & 0 \end{pmatrix}$$

$$(253) \quad \begin{pmatrix} 1 & 0 & -1 & 1 & 0 \\ 2 & 0 & -1 & 1 & 0 \\ 2 & 0 & -1 & 1 & -1 \\ 2 & 0 & -1 & 0 & 0 \\ 1 & 1 & -1 & 0 & 0 \end{pmatrix}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$(273) \quad \begin{pmatrix} -2 & 0 & 1 & -1 & 1 \\ -1 & 0 & 1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ -2 & 0 & 1 & 0 & 0 \\ -1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

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

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

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

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

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

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

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

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

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

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

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

$$(285) \quad \begin{pmatrix} -1 & -1 & 1 & 0 & 0 \\ -1 & -1 & 2 & -1 & 0 \\ -1 & 0 & 1 & 0 & 0 \\ -1 & 0 & 1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

$$(286) \quad \begin{pmatrix} -1 & -1 & 1 & 0 & 0 \\ -1 & -1 & 2 & -1 & 0 \\ 0 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

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

$$(288) \quad \begin{pmatrix} 1 & 1 & -2 & 1 & -1 \\ 1 & 0 & -1 & 1 & -1 \\ 0 & 1 & -1 & 1 & -1 \\ 1 & 1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

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

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

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

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

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

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

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

$$(296) \quad \begin{pmatrix} -1 & -1 & 1 & 0 & 0 \\ -2 & 0 & 1 & 0 & 0 \\ -1 & 0 & 1 & 0 & 0 \\ -1 & 0 & 1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$(318) \quad \begin{pmatrix} 0 & -1 & 1 & -1 & 1 \\ -1 & -1 & 1 & 0 & 0 \\ -1 & -1 & 2 & -1 & 0 \\ 0 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & -1 & 0 \end{pmatrix}$$

$$(319) \quad \begin{pmatrix} -1 & 0 & 1 & -1 & 1 \\ -1 & -1 & 2 & -1 & 1 \\ 0 & -1 & 1 & -1 & 1 \\ -1 & -1 & 2 & -1 & 0 \\ 0 & 0 & 1 & -1 & 0 \end{pmatrix}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$(342) \quad \begin{pmatrix} 1 & 1 & -2 & 1 & 0 \\ 1 & 1 & -2 & 1 & -1 \\ 0 & 1 & -1 & 1 & -1 \\ 1 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \end{pmatrix}$$

$$(343) \quad \begin{pmatrix} 0 & 0 & -1 & 1 & 0 \\ 1 & 1 & -2 & 1 & 0 \\ 0 & 1 & -1 & 1 & 0 \\ 0 & 1 & -1 & 1 & -1 \\ 0 & 1 & -1 & 0 & 0 \end{pmatrix}$$

$$(344) \quad \begin{pmatrix} 1 & 1 & -2 & 1 & 0 \\ 1 & 1 & -2 & 1 & -1 \\ 1 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 \\ 1 & 0 & -1 & 0 & 0 \end{pmatrix}$$

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

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

$$(347) \quad \begin{pmatrix} 1 & 1 & -2 & 1 & 0 \\ 1 & 0 & -1 & 1 & 0 \\ 1 & 0 & -1 & 1 & -1 \\ 1 & 1 & -1 & 0 & 0 \\ 1 & 0 & -1 & 0 & 0 \end{pmatrix}$$

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

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

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

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

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

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

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

(355)
$$\begin{pmatrix} 1 & 1 & -2 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 1 & 0 & -1 & 1 & 0 \\ 1 & 0 & -1 & 1 & -1 \\ 1 & 0 & -1 & 0 & 0 \end{pmatrix}$$

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

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

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

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

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

$$(361) \quad \begin{pmatrix} -1 & -1 & 1 & -1 & 1 \\ -2 & 0 & 1 & -1 & 1 \\ -1 & 0 & 1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ -1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$(404) \quad \begin{pmatrix} 0 & 0 & 0 & -1 & 1 \\ -1 & -1 & 1 & -1 & 1 \\ -2 & 0 & 1 & -1 & 1 \\ -2 & 0 & 1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$(405) \quad \begin{pmatrix} -1 & -1 & 2 & -2 & 1 \\ -1 & 0 & 1 & -1 & 1 \\ 0 & -1 & 1 & -1 & 1 \\ -1 & -1 & 2 & -1 & 0 \\ -1 & -1 & 1 & 0 & 0 \end{pmatrix}$$

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

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

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

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

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

$$(411) \quad \begin{pmatrix} 1 & 1 & -2 & 1 & 0 \\ 1 & 1 & -2 & 1 & -1 \\ 1 & 0 & -1 & 1 & -1 \\ 1 & 1 & -1 & 0 & 0 \\ 1 & 0 & -1 & 0 & 0 \end{pmatrix}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(432)
$$\begin{pmatrix} -1 & -1 & 1 & 0 & 0 \\ -1 & -1 & 1 & -1 & 0 \\ -2 & 0 & 1 & -1 & 0 \\ -1 & 0 & 1 & -1 & 0 \\ 0 & 0 & 0 & 0 & -1 \end{pmatrix}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

$$(446) \quad \begin{pmatrix} 0 & 0 & -1 & 1 & 0 \\ 0 & 0 & -1 & 1 & -1 \\ 1 & 1 & -2 & 1 & -1 \\ 0 & 1 & -1 & 0 & 0 \\ 1 & 0 & -1 & 0 & 0 \end{pmatrix}$$

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

$$(448) \quad \begin{pmatrix} 1 & 1 & -2 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 \\ 1 & 1 & -2 & 1 & -1 \\ 0 & 1 & -1 & 1 & -1 \\ 1 & 0 & -1 & 1 & -1 \end{pmatrix}$$

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

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

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

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

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

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

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

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