

4.2.4 a)

$$\begin{vmatrix} 0 & 3 & 1 \\ 1 & 1 & 2 \\ 3 & 2 & 4 \end{vmatrix} = - \begin{vmatrix} 1 & 1 & 2 \\ 0 & 3 & 1 \\ 3 & 2 & 4 \end{vmatrix} =$$

$$= - \begin{vmatrix} 1 & 1 & 2 \\ 0 & 3 & 1 \\ 0 & -1 & -2 \end{vmatrix} =$$

$$= \begin{vmatrix} 1 & 1 & 2 \\ 0 & -1 & -2 \\ 0 & 3 & 1 \end{vmatrix} =$$

$$= \begin{vmatrix} 1 & 1 & 2 \\ 0 & -1 & -2 \\ 0 & 0 & -5 \end{vmatrix} = 5$$