

4.1

$$\begin{vmatrix} 1 & 3 & 5 \\ 2 & 4 & 6 \\ 0 & 2 & 4 \end{vmatrix}$$

$$= (-1)^2(10-12) + (-1)^3(8-0) + (-1)^4(4-0) =$$

$$= 4 - 8 + 4 = 0$$

Beprw

4.2

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

$-R_1$

$+R_2$

$+R_1$

$-R_1$

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

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

