

Oef 13 p A.31

$$\det B = |B| = \begin{vmatrix} 4 & 2 \\ -8 & -4 \end{vmatrix}$$

$$= 4 \cdot (-4) - (-8) \cdot 2$$

$$= 0$$

$R_2 = -2R_1$: wervredige rijen
 $\Rightarrow \det B = 0$

$$\det C = |C| = \begin{vmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{vmatrix}$$

$$K_3 \rightarrow K_1 + K_3 = \begin{vmatrix} 1 & 2 & 4 \\ 4 & 5 & 10 \\ 7 & 8 & 16 \end{vmatrix}$$

$$K_3 = 2K_2 \Rightarrow \det C = 0$$

alternatief:

$$|C| = \begin{vmatrix} 1 & 2 & 3 \\ 0 & -3 & -6 \\ 0 & -6 & -12 \end{vmatrix} \begin{array}{l} R_2 - 4R_1 \\ R_3 - 7R_1 \end{array}$$

$$= \begin{vmatrix} 1 & 2 & 3 \\ 0 & -3 & -6 \\ 0 & 0 & 0 \end{vmatrix} \begin{array}{l} R_3 - 2R_2 \end{array}$$

$$= 0$$