

Oef 6 p A.29

? a heeft stelsel opl?

$$\begin{cases} 6x + y = 7 \\ 3x + y = 4 \\ -6x - 2y = a \end{cases}$$

$$\left(\begin{array}{cc|c} 6 & 1 & 7 \\ 3 & 1 & 4 \\ -6 & -2 & a \end{array} \right) \xrightarrow{R_1 \leftrightarrow R_2} \left(\begin{array}{cc|c} 3 & 1 & 4 \\ 6 & 1 & 7 \\ -6 & -2 & a \end{array} \right)$$

$$\begin{array}{l} R_2 - 2R_1 \\ \sim \\ R_3 + 2R_1 \end{array} \left(\begin{array}{cc|c} 3 & 1 & 4 \\ 0 & -1 & -1 \\ 0 & 0 & a+8 \end{array} \right)$$

het stelsel heeft opl $\Leftrightarrow a+8=0$
 $\Leftrightarrow a=-8$

$$\text{opl } R_1 + 1 \cdot 2 \left(\begin{array}{cc|c} 3 & 0 & 3 \\ 0 & +1 & +1 \\ 0 & 0 & 0 \end{array} \right)$$

$$\begin{cases} x = 1 \\ y = 1 \end{cases}$$