

29 The system can be solved as follows.

$$\left[\begin{array}{cc|c} 1 & -1 & 1 \\ 1 & 1 & 5 \end{array} \right] \xrightarrow{R_2 - R_1} \left[\begin{array}{cc|c} 1 & -1 & 1 \\ 0 & 2 & 4 \end{array} \right] \xrightarrow{\frac{1}{2}R_2} \left[\begin{array}{cc|c} 1 & -1 & 1 \\ 0 & 1 & 2 \end{array} \right] \xrightarrow{R_1 + R_2} \left[\begin{array}{cc|c} 1 & 0 & 3 \\ 0 & 1 & 2 \end{array} \right]$$

The solution is $(3, 2)$.