

$$(\xi_1) \quad \Leftrightarrow \quad \left(\begin{array}{ccccc|c} 1 & 2 & 1 & -1 & -1 & 0 \\ 0 & \boxed{0} & 2 & 1 & 1 & 4 \\ 0 & 0 & 2 & 2 & 1 & 5 \\ 0 & 3 & 1 & 2 & 3 & 14 \end{array} \right) \quad \Leftrightarrow \quad \begin{cases} x_1 + 2x_2 + x_3 - x_4 - x_5 = 0 & (R_1) \\ 2x_3 + x_4 + x_5 = 4 & (R_2) \\ 2x_3 + 2x_4 + x_5 = 5 & (R_3) \\ 3x_2 + x_3 + 2x_4 + 3x_5 = 14 & (R_4) \end{cases}$$