

S 215 Nr. 11

$$\begin{array}{l} f.) \quad 2x_1 + 2x_2 + 2x_3 = r+2 \quad | \cdot 2 \quad | \cdot 1 \\ \quad \quad 4x_1 - 3x_2 + 2x_3 = 0 \quad \quad | \cdot (-1) \\ \quad \quad x_1 + x_2 + 3x_3 = 2r+6 \quad \quad | \cdot (-2) \end{array}$$

$$2x_1 + 2x_2 + 2x_3 = r+2$$

$$7x_2 + 2x_3 = 2r+4$$

$$-4x_3 = -3r - 10$$

$$\underline{\underline{x_3 = +\frac{3}{4}r + \frac{10}{4} = \frac{3}{4}r + \frac{5}{2}}}$$

$$7x_2 + 2\left(\frac{3}{4}r + \frac{5}{2}\right) = 2r+4 \Rightarrow 7x_2 = 2r - \frac{3}{2}r + 4 - 5 = \frac{1}{2}r - 1$$

$$\underline{\underline{x_2 = \frac{1}{14}r - \frac{1}{7}}}$$

$$2x_1 + 2 \cdot \left(\frac{1}{14}r - \frac{1}{7}\right) + 2\left(\frac{3}{4}r + \frac{5}{2}\right) = r+2$$

$$2x_1 + \frac{1}{7}r - \frac{2}{7} + \frac{3}{2}r + 5 = r+2$$

$$2x_1 = r+2 - \frac{1}{7}r + \frac{2}{7} - \frac{3}{2}r - 5$$

$$2x_1 = -\frac{9}{14}r - \frac{19}{7}$$

$$\underline{\underline{x_1 = -\frac{9}{28}r - \frac{19}{14}}}$$

$$\underline{\underline{\mathcal{L} = \left\{ \left( -\frac{9}{28}r - \frac{19}{14}; \frac{1}{14}r - \frac{1}{7}; \frac{3}{4}r + \frac{5}{2} \right) \right\}}}$$