$$A = \begin{pmatrix} 5 & -4 & -7 \\ -4 & 9 & 7 \\ -3 & 7 & 11 \end{pmatrix} \qquad \overline{b} = \begin{pmatrix} -1 \\ 1 \\ -1 \end{pmatrix} \qquad \overline{X}^{\circ} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \qquad k = 3$$

$$\overline{\Gamma}^{\circ} = \overline{b} - A \cdot \overline{X}^{\circ} = \begin{pmatrix} -1 \\ 1 \\ -1 \end{pmatrix} - \begin{pmatrix} 5 - 4 - 7 \\ -4 & 9 & 7 \\ -7 & 7 & 11 \end{pmatrix} \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} = \begin{pmatrix} -1 \\ 1 \\ -1 \end{pmatrix}$$

W = 0,58463896

$$\overline{X}^{1} = \overline{X}^{0} + w_{0} \cdot \overline{\Gamma}^{0} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} + 0_{1}59464 \cdot \begin{pmatrix} -1 \\ 1 \\ -1 \end{pmatrix} = \begin{pmatrix} -0_{1}59464 \\ -0_{1}59464 \end{pmatrix} = \begin{pmatrix} -1_{1}16928 \\ -1_{1}75392 \end{pmatrix} = \begin{pmatrix} 0_{1}16928 \\ -1_{1}75392 \end{pmatrix} = \begin{pmatrix} 0_{1}16928 \\ -1_{1}75392 \end{pmatrix}$$

$$\overline{X}^{1} = \overline{X}^{0} + w_{0} \cdot \overline{\Gamma}^{0} = \begin{pmatrix} 0 \\ 0 \\ -1 \\ -1 \end{pmatrix} + 0_{1}59464 \cdot \begin{pmatrix} -1 \\ 1 \\ -1 \end{pmatrix} - \begin{pmatrix} -1_{1}16928 \\ 3_{1}50784 \\ -1_{1}75392 \end{pmatrix} = \begin{pmatrix} 0_{1}16928 \\ -2_{1}75392 \end{pmatrix}$$

$$\overline{X}^{1} = \overline{X}^{0} + w_{0} \cdot \overline{\Gamma}^{0} = \begin{pmatrix} 0 \\ 0 \\ -1 \end{pmatrix} + 0_{1}59464 \cdot \begin{pmatrix} -1 \\ 1 \\ -1 \end{pmatrix} - \begin{pmatrix} -1_{1}16928 \\ 3_{1}50784 \\ -1_{1}75392 \end{pmatrix} = \begin{pmatrix} 0_{1}16928 \\ -2_{1}75392 \end{pmatrix}$$

$$\overline{X}^{1} = \overline{X}^{0} + w_{0} \cdot \overline{\Gamma}^{0} = \begin{pmatrix} 0 \\ 0 \\ -1 \end{pmatrix} + 0_{1}59464 \cdot \begin{pmatrix} -1 \\ 1 \\ -1 \end{pmatrix} - \begin{pmatrix} -1_{1}16928 \\ 3_{1}50784 \\ -1_{1}75392 \end{pmatrix} = \begin{pmatrix} 0_{1}16928 \\ -2_{1}75392 \end{pmatrix}$$