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 $A = \begin{pmatrix} 2 & 0 & 1 \\ 0 & 1 & 0 \\ 0 & 1 &$

1 2-) Jakobi X; = 1 (bi - Za; X;) $x_1^{(1)} = \frac{1}{2} \cdot (4 - 0.0 - 1.0) = 2$ $X_{2}^{(n)} = 1 \cdot (0 - 0.0 - 0.0) = 0$ $X_{3}^{(n)} = \frac{1}{2} \cdot (5 - 1.0 - 0.0) = \frac{5}{2}$ $x_{3}^{(2)} = \frac{1}{2} \cdot (5 - 1.2 - 0.0) = \frac{3}{2}$ $\chi_{n}^{(3)} = \frac{1}{2} \cdot (4 - 0.0 - 1.\frac{3}{2}) = \frac{5}{4}$ $x_1^{(3)} = \frac{1}{2} \cdot (5 - 1 \cdot \frac{3}{4} - 0 \cdot 0) = \frac{17}{8}$ $x_1 = \frac{1}{2} \cdot (4 - 0.0 - 1.\frac{12}{8}) = \frac{15}{16}$ $\chi_{3}^{(3)} = \frac{1}{2} \cdot (5 - 1 \cdot \frac{5}{4} - 0 \cdot 0) = \frac{17}{8}$

Gauß-Seile (Xi = \frac{1}{aii} (bi - \frac{5}{2} aij \frac{1}{3} ij \frac{1}{3} $x_{1}^{(1)} = \frac{1}{2} \cdot (4 - 0 \cdot 0 - 1 \cdot 0) = 2$ $X_{2}^{(1)} = 1 \cdot (0 - 0 \cdot 2 - 0 \cdot 0) = 0$ $X_{3}^{(1)} = \frac{1}{2} \cdot (5 - 1 \cdot 2 - 0 \cdot 0) = \frac{3}{2}$ $x_1^{(2)} = \frac{1}{2} \cdot (4 - 0.0 - 1.\frac{3}{2}) = \frac{5}{4}$ $X_{2}^{(2)} = \frac{1}{2} \cdot (5 - 1 \cdot \frac{5}{4} - 0 \cdot 0) = \frac{15}{8}$ $x_1 = \frac{1}{3} \cdot (4 - 0.0 - 1.\frac{15}{8}) = \frac{17}{16}$ $\chi_{3}^{(2)} = \frac{1}{1} \cdot (5 - 1 \cdot \frac{17}{16} - 0 \cdot 0) = \frac{63}{32}$ $x_1^{(4)} = \frac{1}{2} \cdot \left(4 - 0.0 - 1.\frac{63}{32}\right) = \frac{65}{64}$ $x_3^{(6)} = 4 \cdot (5 - 1 \cdot \frac{65}{69} - 0 \cdot 0) = \frac{255}{128}$