

Przykład

$$0.729x_1 + 0.81x_2 + 0.9x_3 = 0.6867$$

$$x_1 + x_2 + x_3 = 0.8338$$

$$1.331x_1 + 1.21x_2 + 1.1x_3 = 1.000$$

Rozwiązanie dokładne

$$x_1 = 0.2245, \quad x_2 = 0.2814, \quad x_3 = 0.3279$$

Bez Pivotingu

$$\left[\begin{array}{ccc|c} 0.7290 & 0.8100 & 0.9000 & 0.6867 \\ 1.000 & 1.000 & 1.000 & 0.8338 \\ 1.331 & 1.210 & 1.100 & 1.000 \end{array} \right]$$

$$\downarrow \begin{array}{l} m_{21} = 1.372 \\ m_{31} = 1.826 \end{array}$$

$$\left[\begin{array}{ccc|c} 0.7290 & 0.8100 & 0.9000 & 0.6867 \\ 0.0 & -0.1110 & -0.2350 & -0.1084 \\ 0.0 & -0.2690 & -0.5430 & -0.2540 \end{array} \right]$$

$$\downarrow m_{32} = 2.423$$

$$\left[\begin{array}{ccc|c} 0.7290 & 0.8100 & 0.9000 & 0.6867 \\ 0.0 & -0.1110 & -0.2350 & -0.1084 \\ 0.0 & 0.0 & 0.02640 & 0.008700 \end{array} \right]$$

$$x_1 = 0.2251, \quad x_2 = 0.2790, \quad x_3 = 0.3295$$

nie jest źle