

Matrix Problem Report

Generated on: December 20, 2024

Matrix (A):

$$\begin{bmatrix} 34.0 & 24.0 & 3.0 \\ 32.0 & 34.0 & 3.0 \\ 33.0 & 3.0 & 32.0 \end{bmatrix}$$

Vector (b):

$$\begin{bmatrix} 2.0 \\ 3.0 \\ 3.0 \end{bmatrix}$$

Initial conditions:

$$\begin{bmatrix} 2.0 \\ 2.0 \\ 3.0 \end{bmatrix}$$

Solutions:

Method	Solution (Vector)	Time (ms)	Iterations
Gauss Elimination	-0.018320, 0.096336, 0.103612	0.0048	0
LU Decomposition	-0.018320, 0.096336, 0.103612	0.0156	0
Gauss Seidel	-0.018320, 0.096335, 0.103611	86.4294	30
Jacobian	-0.018320, 0.096337, 0.103613	91.2154	124

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