Solution Approach of Linear Equations without Fractional Systems by Using Modification Method Gauss – Jordan for 3 Variables and 3 Equations

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Abstract

Based on Linear Algebra teaching experience and Numerical Method Analysis five years back, students have difficulty in solving linear equation system by using the Gauss-Jordan method when they are met with fractions. The modification of the Gauss-Jordan method in its completion can avoid fractions, although the end result can be in the form of fractions. The modification of the Gauss-Jordan method integrates two rules into new i th -row equal to k1 times the old i th – row minus by k2 times the row j th (where $i \neq j$).

Keywords: *linear algebra, Gauss – Jordan Method*