DEVELOPMENT OF NEW ITERATIVE SCHEME FOR SOLVING NON-LINEAR EQUATIONS

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Abstract

Within our study a special type of [iterative method] ω is developed by upgrading Newton-Raphson method. We have modified Newton's method by using our newly developed quadrature rule which is obtained by blending Trapezoidal rule and open type Newton-cotes two point rule. Our newly developed method gives better result than the Newton's method. Order of convergence of our newly discovered quadrature rule and iterative method is 3.

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