

A STUDY ON THE DEFINITE RESULT OF DIFFERENCES BETWEEN TRAPEZOIDAL RULE AND SIMPSON'S RULE IN NUMERICAL METHODS

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ABSTRACT

In this research paper, firstly the fixed number, floating number, significant digits and formulas of error are introduced. And, there is also a study of accuracy and converge rates of iterative algorithms with some examples. Moreover, some problems for solving $f(x)=0$ by using numerical methods are also shown in this paper. It is explained that the definition of interpolation is easy to understand with some curves. In addition, the numerical integration and differentiation are discussed. Especially the result of the differences between Trapezoidal Rule and Simpson's Rule is highlighted in this paper.