

**COMPARATIVE STUDY OF NEWTON'S METHOD,
BROYDEN'S METHOD AND STEEPEST DESCENT METHOD**

**NUR ALIA SYAHIRAH BINTI MAZLAN
NURZAHIDA BINTI MOHD ZAHARUDDIN**

**BACHELOR OF SCIENCE (HONS.)
COMPUTATIONAL MATHEMATICS
UNIVERSITI TEKNOLOGI MARA**

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DECLARATION BY CANDIDATE

I certify that this report and the project to which it refers is the product of my own work and that any idea or quotation from the work of other people, published or otherwise are fully acknowledged in accordance with the standard referring practices of the discipline.

NUR ALIA SYAHIRAH BINTI MAZLAN

2016299258

11 JULY 2019

NURZAHIDA BINTI MOHD ZAHARUDDIN

2016284376

11 JULY 2019

ABSTRACT

Mathematically, numerical analysis is the area of computer science and computer mathematics that creates, analyses and implements for solving of continuous mathematics in numerical problem. Thus, this research significantly presents a detailed study of the comparison in iterative methods for solving non-linear system using Newton's Method, Broyden's Method and Steepest Descent's Method. These iterative methods are chosen since they are well-known basic iterative methods in numerical analysis. The purpose of this study is to identify which method is the most efficient based on its number of iteration and CPU time. Therefore, researchers can decide the most appropriate method for their work by the comparative study.

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