Abstract

The main aim of this project is to solve the linear ordinary different equation

We are applying the iterative methods that called variational methods(VIM).

Some examples will be solved to show that the proposed methods are efficient

and have high accuracy and does not require any restrictive assumption. Also,

the comparison with the numerical methods, with the analytical solution.

The First Chapter of this Project will focus on some basic concepts of the

ordinary differential equations. The Second Chapter deals with implementation

of the new iterative methods(VIM) to solve the linear ordinary differential

equation. In Chapter three, we will solve some examples, in the first, will find

the exact solution then use the (VIM) to find the numerical solution