

NUMERICAL METHODS FOR SOLVING ONE VARIABLE AND SYSTEMS OF NONLINEAR EQUATIONS

DEREJE NEGUSSIE

Research Scholar, Department of Mathematics, Collage of Natural and Computational science,
Dilla University, Ethiopia

ABSTRACT

In this paper we will focus on the numerical methods involved in solving nonlinear equation in one variable and systems of nonlinear equations. First we will study the fixed point iteration and Newton's method in one variable for solving nonlinear equation and their convergence. Second we will examine these two methods in for solving of multivariable nonlinear equations which involves the Jacobean matrix and finally we also give an application of Newton's methods.

KEYWORDS: Numerical Methods of Solving Nonlinear Equations