



# Introduction to Numerical Methods

## Unit

# 12

## 12.1 Numerical Solution of Non-linear Equations

### 12.1.1 Describe importance of numerical methods

Till now, all the methods we have learnt to solve the non-linear equation and finding of the derivative or integration of functions are analytical methods.

When analytic approaches are failed to find the solution of a non-linear equation or require too many tedious computations then, mathematicians used numerical methods to compute approximate solution. Therefore, numerical methods have great importance in the field of mathematics.

### 12.1.2 Explain the basic principles of solving a non-linear equation in one variable

The basic principle of solving a non-linear equation is to find the interval (values of  $a$  and  $b$ ) for a function  $f(x)$ , where  $f(a)$  and  $f(b)$  are of opposite signs such that  $f(a) \cdot f(b) < 0$ , then the root of  $f(x) = 0$  lies in the interval  $[a, b]$ .

For example,  $f(x) = x^3 - 2x - 5$ , put the values of  $x = 0, 1, 2, 3$  in  $f(x)$ , we get

$$f(0) = (0)^3 - 2(0) - 5 = -5$$

$$f(1) = (1)^3 - 2(1) - 5 = -6$$

$$f(2) = (2)^3 - 2(2) - 5 = -1$$

$$f(3) = (2)^3 - 2(3) - 5 = 16$$

Here  $f(2) = -1 < 0$  (-ve) and  $f(3) = 16 > 0$  (+ve), such that  $f(2) \cdot f(3) = (-1) \cdot (16) = -16 < 0$ .

Now, root lies in the interval  $[a, b] = [2, 3]$ .

### 12.1.3 Calculate the real roots of a non-linear equation in one variable by

- Bisection method
- regula-falsi method
- Newton-Raphson method

#### • Bisection Method

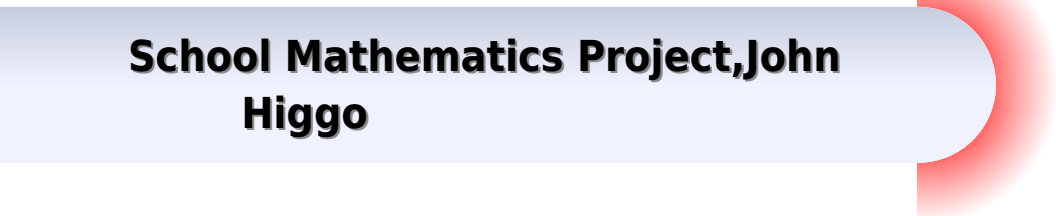
The bisection technique is a root-finding method which repeatedly bisects an interval and then selects a sub-interval in which a root must lie for further processing. It is a very easy and reliable procedure.

#### Algorithm of a Bisection method

If  $f(x)$  is a continuous function over an interval, then to find the root of  $f(x) = 0$  by bisection method, following steps are taken.

# Numerical Methods Unit Guide

**School Mathematics Project, John  
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**Publications of the National Bureau of Standards** United States. National Bureau of Standards,1960  
*Technical Bulletin* ,1973

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