

Numerical Methods

(Practice Questions)

Bisection Method

1. Use Bisection Method to solve the following: (3 iterations)

a. $x^2 - x - 4 = 0$

Solution:

Let $f(x) = x^2 - x - 4$

Consider,

$f(a) = f(2) = -2 < 0$

$f(b) = f(3) = 2 > 0$

$\therefore$ root lies between 2 and 3

Iteration	a	b	$f(a)$	$f(b)$	$x = \frac{a+b}{2}$	$f(x)$
I	2	3	-2	2	2.5	-0.25
II	2.5	3	-0.25	2	2.75	0.8125
III	2.5	2.75	-0.25	0.8125	2.625	-

b. $x^3 - 4x - 9 = 0$

Solution:

Let $f(x) = x^3 - 4x - 9$

Consider,

$f(a) = f(2) = -9 < 0$

$f(b) = f(3) = 6 > 0$

$\therefore$ root lies between 2 and 3

Iteration	a	b	$f(a)$	$f(b)$	$x = \frac{a+b}{2}$	$f(x)$
I	2	3	-9	6	2.5	-3.375
II	2.5	3	-3.375	6	2.75	0.7969
III	2.5	2.75	-3.375	0.7969	2.625	-

c. $x^3 - 5x + 1 = 0$

Solution:

Let $f(x) = x^3 - 5x + 1$

Consider,

$f(a) = f(2) = -1 < 0$

$f(b) = f(3) = 13 > 0$

$\therefore$ root lies between 2 and 3



Numerical Methods In Practice

CL Gary



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