

FOR THE FUNCTION  $\log(x) - \sin(x)$

TABLE I: Bisection mehtod

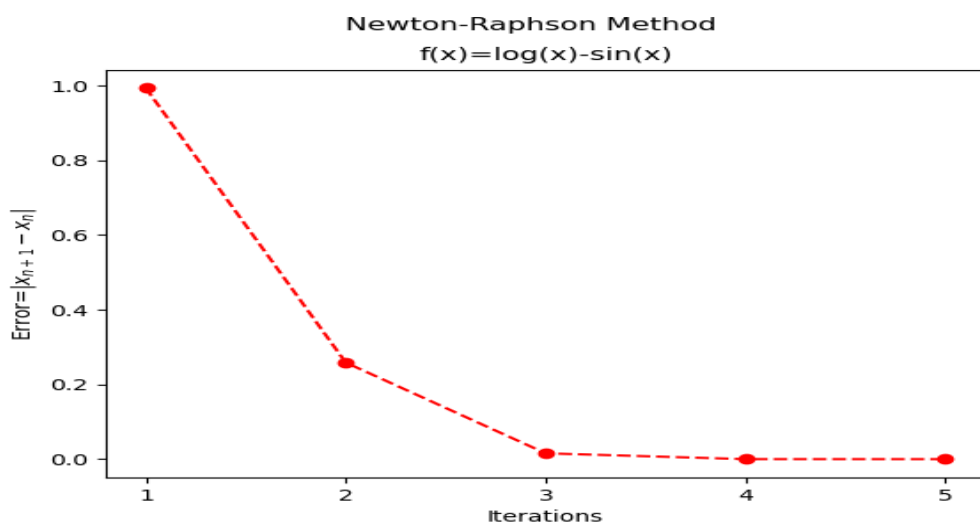
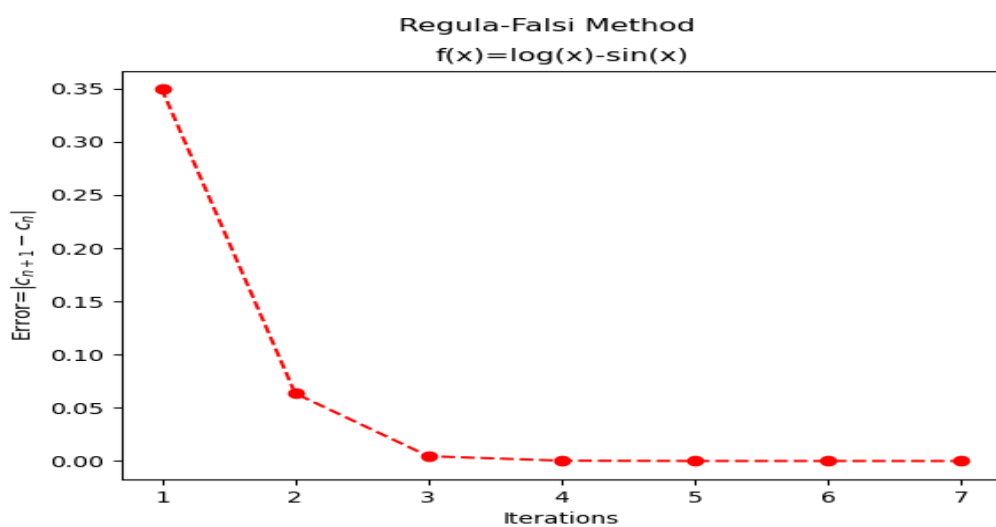
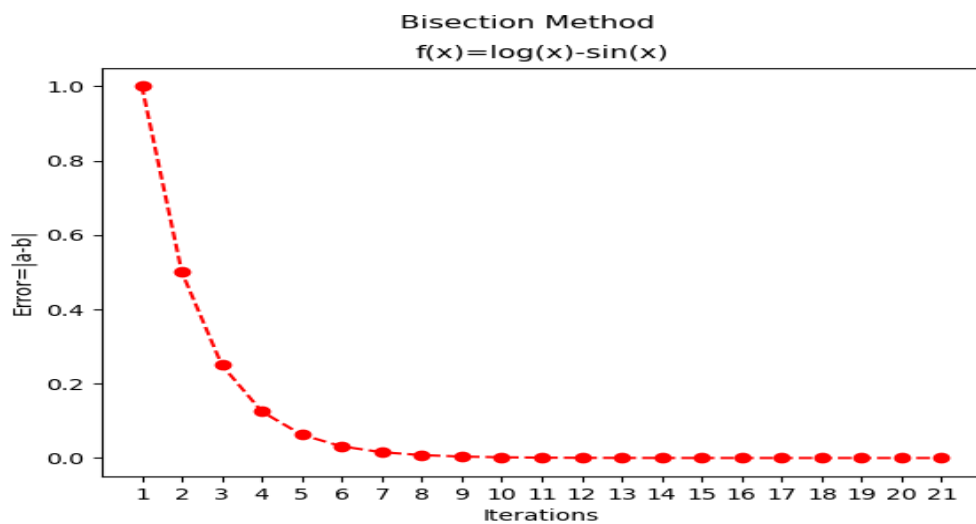
Iteration	$ b - a $
1	1.0
2	0.5
3	0.25
4	0.125
5	0.0625
6	0.03125
7	0.015625
8	0.0078125
9	0.00390625
10	0.001953125
11	0.0009765625
12	0.00048828125
13	0.000244140625
14	0.0001220703125
15	6.103515625e-05
16	3.0517578125e-05
17	1.52587890625e-05
18	7.62939453125e-06
19	3.814697265625e-06
20	1.9073486328125e-06
21	9.5367431640625e-07

TABLE II: Regula-Falsi

Iteration	$ c_{n+1} - c_n $
1	0.34930936255186396
2	0.06358816982236615
3	0.004498957497641953
4	0.0003069684216292501
5	2.0890509802029555e-05
6	1.4214364822962011e-06
7	9.671651568510242e-08

TABLE III: Newton-Raphson

Iteration	$ x_{n+1} - x_n $
1	0.9934562933536615
2	0.2586818171597143
3	0.015599302073723731
4	6.802390318583207e-05
5	1.303291696785891e-09



FOR THE FUNCTION  $-x - \cos(x)$

TABLE IV: Bisection mehtod

Iteration	$ b - a $
1	2
2	1.0
3	0.5
4	0.25
5	0.125
6	0.0625
7	0.03125
8	0.015625
9	0.0078125
10	0.00390625
11	0.001953125
12	0.0009765625
13	0.00048828125
14	0.000244140625
15	0.0001220703125
16	6.103515625e-05
17	3.0517578125e-05
18	1.52587890625e-05
19	7.62939453125e-06
20	3.814697265625e-06
21	1.9073486328125e-06
22	9.5367431640625e-07

TABLE V: Regula-Falsi

Iteration	$ c_{n+1} - c_n $
1	0.5854549279332186
2	0.13167994032197738
3	0.019120814944552644
4	0.002470422594234023
5	0.0003135639121472078
6	3.970798100694228e-05
7	5.026921481188218e-06
8	6.363708215939567e-07

TABLE VI: Newton-Raphson

Iteration	$ x_{n+1} - x_n $
1	1.2654638321494631
2	0.0045535563599105044
3	4.590990635877645e-06
4	4.650835272457243e-12

