1.  $x^2-3x+2 = 0$ 

Enter the initial guesses: 0 5

 f(x2)	x2	x1	×0	Iteration
 6.000000	-1.000000	5.000000	0.000000	1
72.000000	-7.000000	-1.000000	5.000000	2
3.570248	-0.454545	-7.000000	-1.000000	3
2.351909	-0.113043	-0.454545	-7.000000	4
0.659735	0.546200	-0.113043	-0.454545	5
0.235500	0.803222	0.546200	-0.113043	6
0.057028	0.945899	0.803222	0.546200	7
0.008583	0.991489	0.945899	0.803222	8
0.000433	0.999567	0.991489	0.945899	9
0.000004	0.999996	0.999567	0.991489	10

The approximate root is 0.999996

2.  $xlog_{10}x-1.2 = 0$ 

Enter the initial guesses: 1 4

Iteration	1 1.000000 4.0000	tion x0 x1 x2	f(x2)		
1	1.000000	4.000000	2.494868	-0.209419	
2	4.000000	2.494868	2.717208	-0.020397	
3	2.494868	2.717208	2.741201	0.000484	
4	2.717208	2.741201	2.740645	-0.000001	

The approximate root is 2.740645

3. xlnx-1.2 = 0

Enter the initial guesses: 1 3

Iteration	×0	×1	x2	f(x2)	
1	1.000000	3.000000	1.728191	 -0 <b>.</b> 254549	
2	3.000000	1.728191	1.865929	-0.036109	
3	1.728191	1.865929	1.888698	0.001000	
4	1.865929	1.888698	1.888085	-0.000004	

The approximate root is 1.888085

4. 3x = cosx + 1

Enter the initial guesses: 0 1

Iteration	×0	×1	x2	f(x2)	
1	0.000000	1.000000	0.578085	-0.103255	
2	1.000000	0.578085	0.605959	-0.004081	
3	0.578085	0.605959	0.607105	0.000014	
4	0.605959	0.607105	0.607102	-0.000000	

The approximate root is 0.607102

5.  $4\sin x = e^x$ 

Enter the initial guesses: 0 4

Iteration	x0	x1	x2	f(x2)
1	0.000000	4.000000	-0.070640	-1.214122
2	4.000000	-0.070640	-0.158251	-1.484000
3	-0.070640	-0.158251	0.323502	-0.110403
4	-0.158251	0.323502	0.362223	-0.019103
5	0.323502	0.362223	0.370325	-0.000531
6	0.362223	0.370325	0.370557	-0.000003

The approximate root is 0.370557