The given equation is: sqrt(x) - cos(x) = 0.

Enter the left end point of the interval: 0

Enter the right end point of the interval: 1

Enter the maximum number of iterations: 10

The Regula-Falsi iterations are given as:

k	a_k	b_k	x_k	f(x_k)
1.000000000	0.00000000	1.000000000	0.685073357	0.053318950
2.000000000	0.00000000	0.685073357	0.650394980	0.010625994
3.000000000	0.00000000	0.650394980	0.643556552	0.002253033
4.000000000	0.00000000	0.643556552	0.642109858	0.000483600
5.000000000	0.00000000	0.642109858	0.641799484	0.000104071
6.000000000	0.00000000	0.641799484	0.641732698	0.000022409
7.000000000	0.00000000	0.641732698	0.641718317	0.000004826
8.000000000	0.00000000	0.641718317	0.641715221	0.000001039
9.00000000	0.00000000	0.641715221	0.641714554	0.000000224
10.000000000	0.00000000	0.641714554	0.641714410	0.000000048

Maximum number of iteraton reached.

An Aapproximate root of the given equation is 0.641714410.