

The given equation is: $x^3+4x^2-10=0$.

Enter the first initial approximation: 1.5

Enter the maximum number of iterations: 20

Enter the measure of accuracy: 10^{-10}

The Fixed-point iterations are given as:

k	x_k	$g(x_k)$
1.0000000000	1.5000000000	1.3483997249
1.0000000000	1.3483997249	1.3673763720
2.0000000000	1.3673763720	1.3649570154
3.0000000000	1.3649570154	1.3652647481
4.0000000000	1.3652647481	1.3652255942
5.0000000000	1.3652255942	1.3652305757
6.0000000000	1.3652305757	1.3652299419
7.0000000000	1.3652299419	1.3652300225
8.0000000000	1.3652300225	1.3652300123
9.0000000000	1.3652300123	1.3652300136
10.0000000000	1.3652300136	1.3652300134
11.0000000000	1.3652300134	1.3652300134
12.0000000000	1.3652300134	1.3652300134

An approximate solution (with tolerance 0.000000) of the given equation is ✓
1.3652300134 .
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