

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

Enter the first initial approximations: 0.5

Enter the second initial approximations: $\pi/4$

Enter the maximum number of iterations: 6

Enter the measure of accuracy: 10^{-5}

The Secant iterations are given as:

k	x_k	$f(x_k)$
1.0000000000	0.5000000000	-0.3775825619
2.0000000000	0.7853981634	0.0782913822
2.0000000000	0.7363841388	-0.0045177185
3.0000000000	0.7390581392	-0.0000451772
4.0000000000	0.7390851493	0.0000000270
5.0000000000	0.7390851332	-0.0000000000

An approximate root (with tolerance 0.000010) of the given equation is 0.7390851332
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