

Numerical Analysis Questions and Answers - Bisection Method - 1

This set of Numerical Analysis Multiple Choice Questions & Answers (MCQs) focuses on "Bisection Method - 1".

1. Using Bisection method find the root of $\cos(x) - x * e^{-x} = 0$ with $a = 0$ and $b = 1$.

- a) 0.617
- b) 0.527
- c) 0.517
- d) 0.717

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Answer: c

Explanation: Iteration table is given as follows:

No.	a	b	c	f(a)*f(b)
1	0	1	0.5	0.053
2	0.5	1	0.75	-0.046
3	0.5	0.75	0.625	-0.357
4	0.5	0.625	0.562	-7.52*10 ⁻²
5	0.5	0.562	0.531	-2.168*10 ⁻²
6	0.5	0.531	0.516	3.648*10 ⁻³
7	0.516	0.531	0.524	-9.371*10 ⁻³
8	0.516	0.524	0.520	-3.649*10 ⁻³
9	0.516	0.520	0.518	-3.941*10 ⁻³
10	0.516	0.516	0.517	1.229*10 ⁻³

The difference between final values is less than 0.01 hence we stop the iterations. So one of the roots of $\cos(x) - x * \exp(x) = 0$ is approximately 0.517.

2. Find the root of $x^2 - x - 10 = 0$ approximately upto 5 iterations using Bisection Method. Let $a = 1.5$ and $b = 2$.

- a) 1.68
- b) 1.86
- c) 1.88
- d) 1.66

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Answer: b

Explanation: Iteration table is given as follows:

No.	a	b	c	f(a)*f(b)
1	1.5	2	1.75	15.264(+ve)

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