

NUMERICAL ANALYSIS: Rootfinding: The Bisection Method

The Bisection Method

In this section, we will assume that $f(x)$ is a real valued function and x is a real variable.

Suppose $f(x)$ is continuous on an interval $a \leq x \leq b$ and that

$$f(a)f(b) < 0$$

Then $f(x)$ changes sign on $[a, b]$ and $f(x) = 0$ has at least one root on the interval.

The simplest numerical procedure for finding a root is to repeatedly halve the interval $[a, b]$ keeping the half on which $f(x)$ changes sign. This procedure is called the bisection method. It is guaranteed to converge to a root, denoted here by α .

Consider an interval $[a, b]$ such that $f(a)f(b) < 0$ and an error tolerance $\epsilon > 0$. Then the bisection method consists of the following steps:

S1. Define $c = (a + b)/2$.

S2. if $b - c \leq \epsilon$, then accept c as the root and stop.

S3. If $\text{sign}[f(b)] \cdot \text{sign}[f(c)] \leq 0$, then $a = c$. Otherwise, set $b = c$ and return to step 1.

Example. Find the largest root of

$$f(x) = x^6 - x - 1 = 0$$

accurate to within $\epsilon = 0.001$ with $a = 1$ and $b = 2$.

Observe that $f(a)f(b) = (-1)(61) < 0$.

The results of the algorithm *S1* to *S3* are shown in the table below. The entry n indicates that the associated row corresponds to iteration number n of steps *S1* to *S3*.

Numerical Analysis Bsc Bisection Method Notes

Shasha Hu



Numerical Analysis Bsc Bisection Method Notes:

Numerical Analysis Bsc Bisection Method Notes: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have captivated audiences this year. Numerical Analysis Bsc Bisection Method Notes : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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