

- $x - \cos(x) = 0$

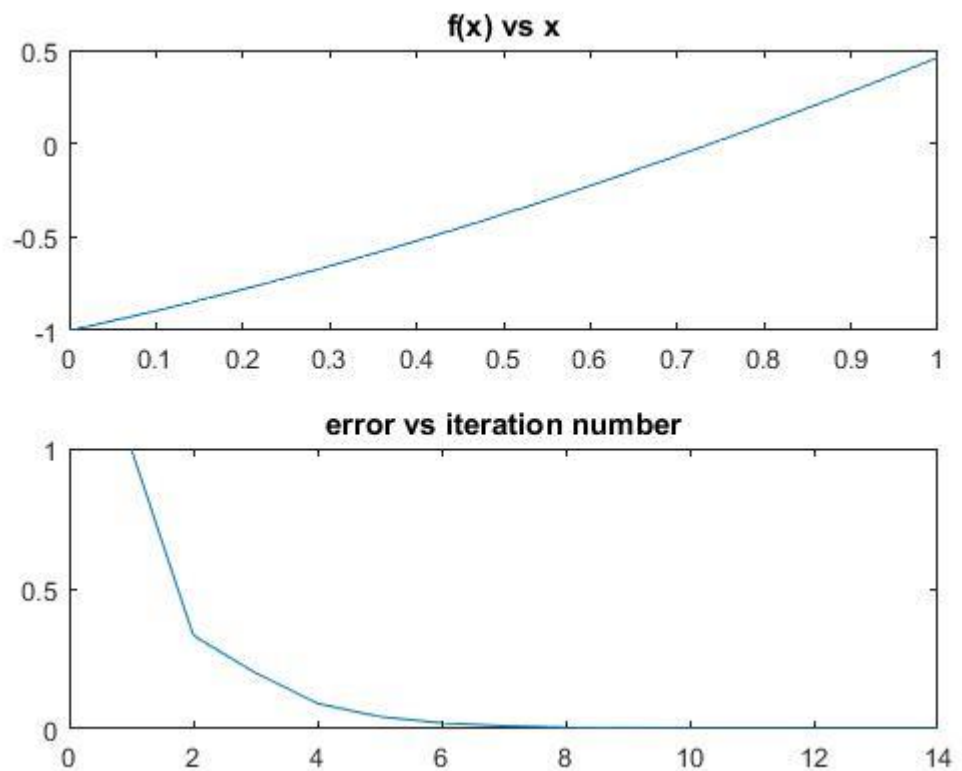
➤ **Bisection Method**

Output:

Root: 0.739078

Iterations required: 14

>Plots :



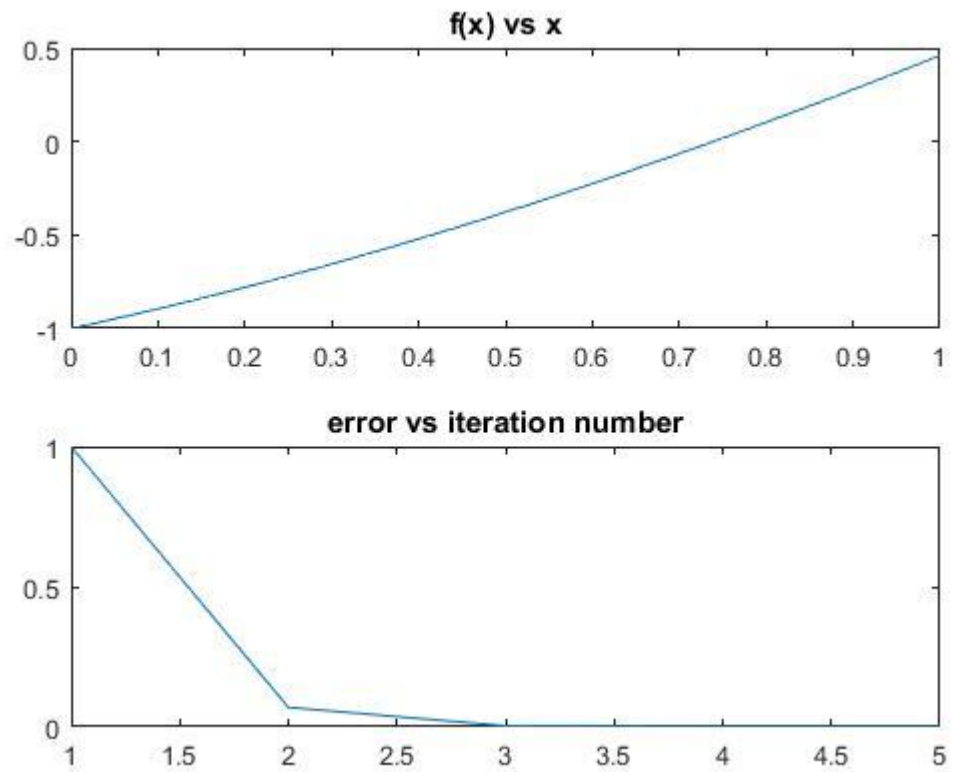
➤ **False Position Method**

Output:

Root: 0.739085

Iterations required: 5

>Plots :



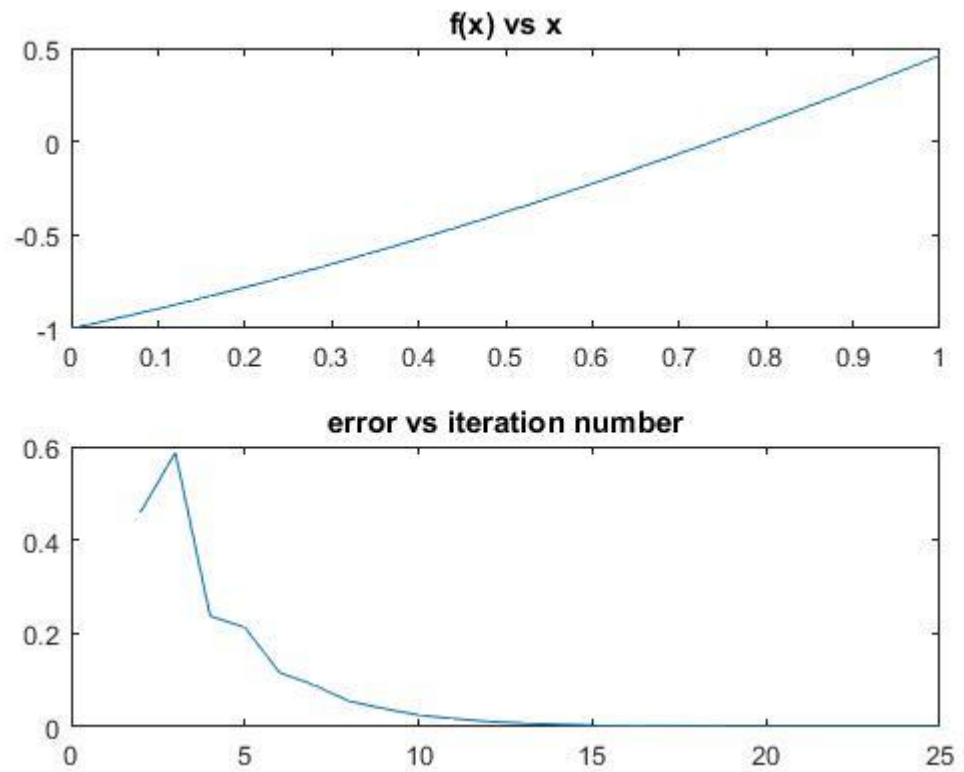
➤ Fixed Point Method

Output:

Root: 0.739106

Iterations required: 25

>Plots:



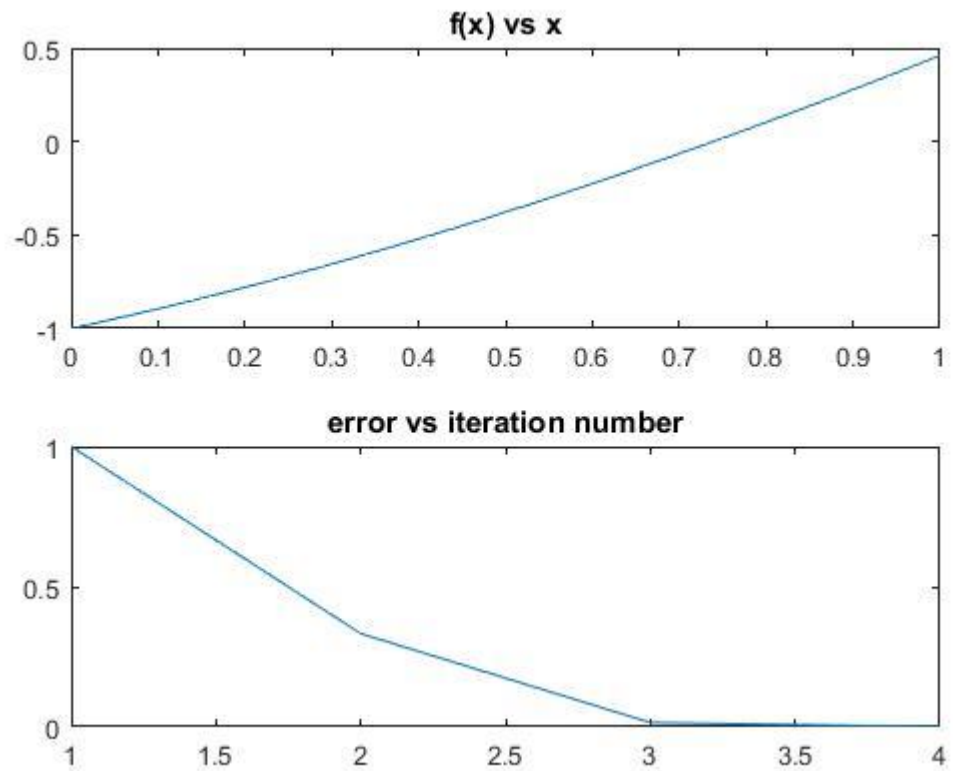
➤ **Newton-Raphson Method:**

Output:

Root: 0.739085

Iterations required: 4

>Plots:



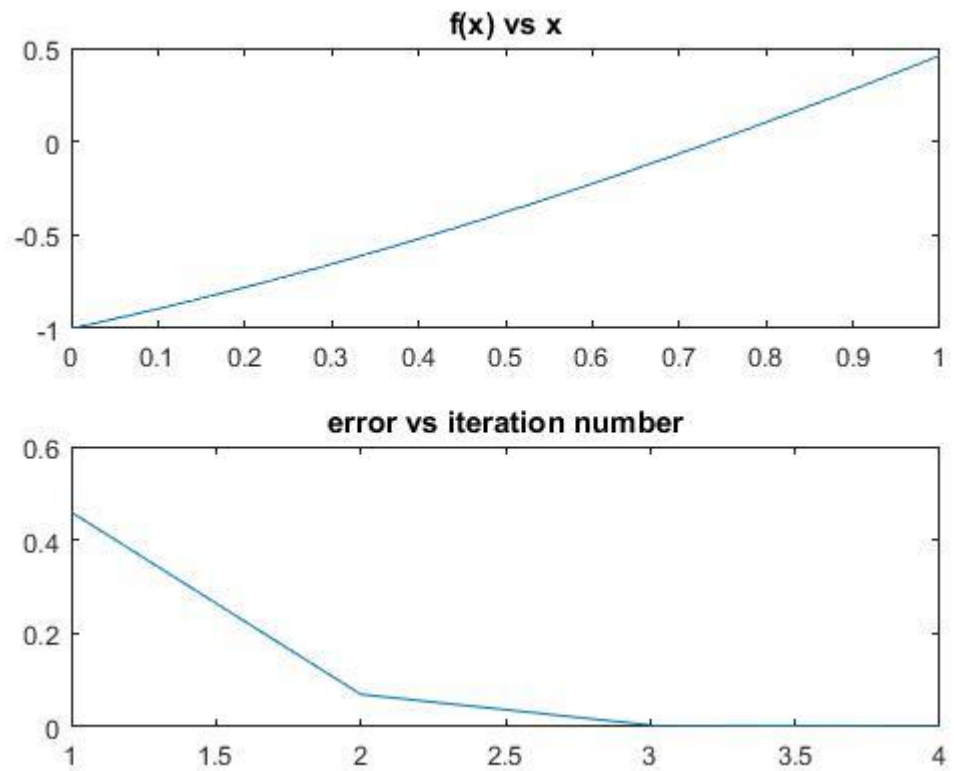
➤ Secant Method

Output:

Root: 0.739085

Iterations required: 4

>Plots:



- $\exp(-x) - x = 0$

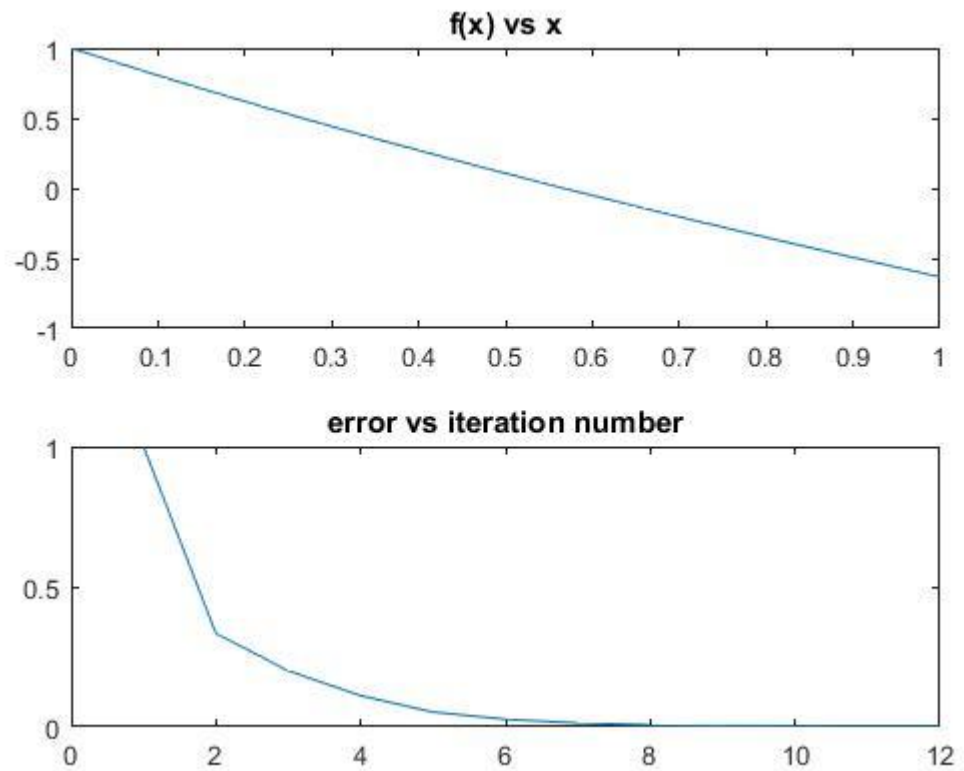
- **Bisection Method:**

Output:

Root: 0.567139

Iterations required: 12

>Plots:



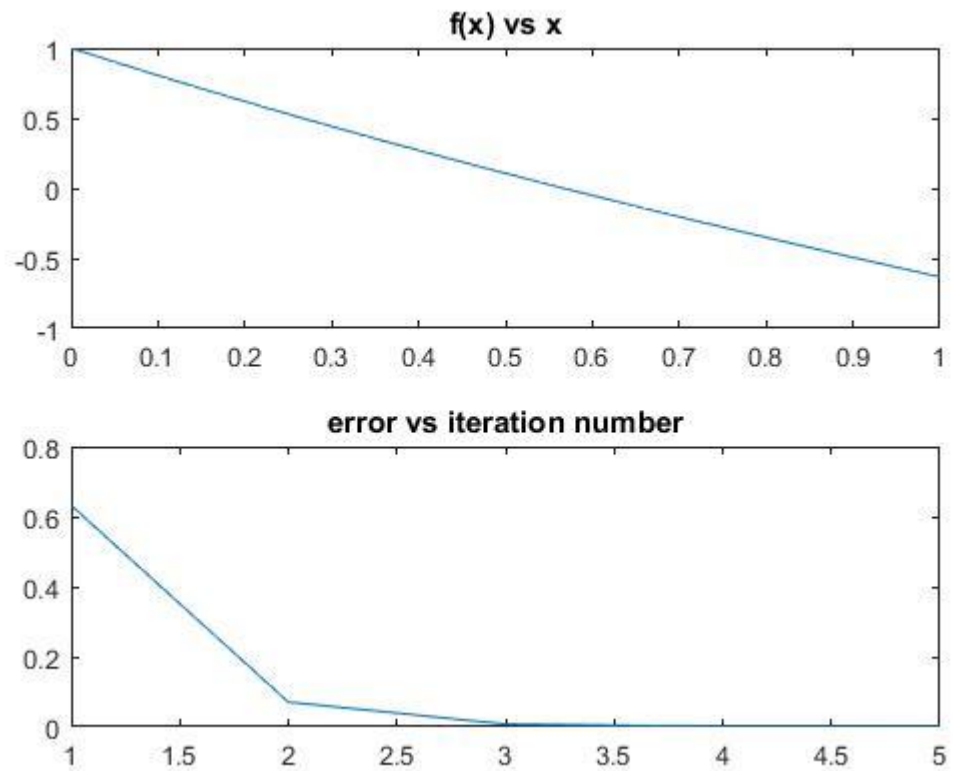
➤ **False Position Method:**

Output:

Roots: 0.567150

Iterations required: 5

>Plots



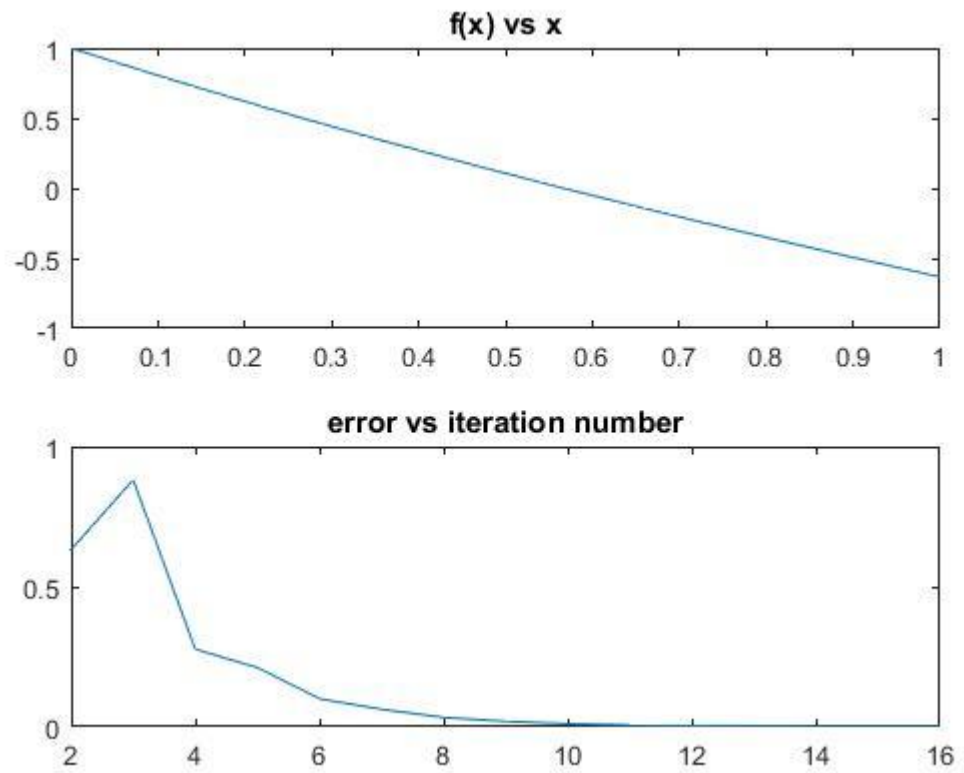
➤ **Fixed Point Method:**

Output:

Roots: 0.567068

Iterations required: 16

>Plots



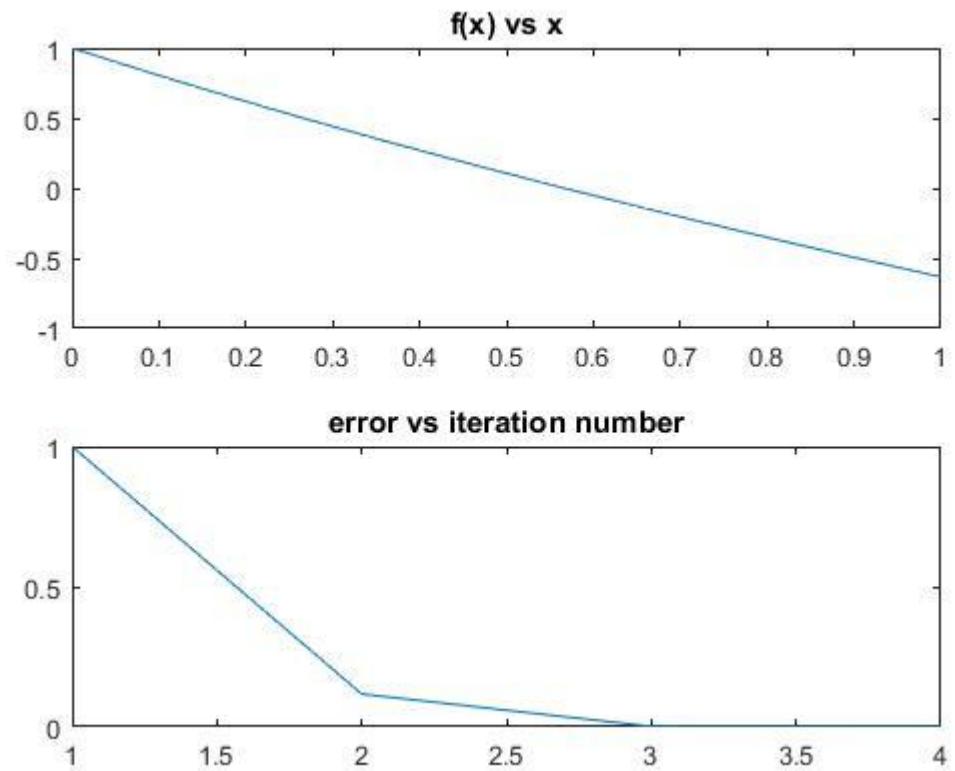
➤ **Newton Method:**

Output:

Roots: 0.567143

Iterations required: 4

>Plots



➤ **Secant Method:**

Output:

Roots: 0.567143

Iterations required: 4

>Plots

