

Exercises for Lecture No. 3

Exercise 1

for function $F(x) = 0.1x^3 + 2x^2 + 5x - 7$ compute the minimum using golden ratio method.

assume accuracy $\text{eps} = 0.01$

initial boundaries $\langle -5, 3 \rangle$

Exercise 2

for function $F(x) = 0.1x^3 + 2x^2 + 5x - 7$ compute the minimum using Fibonacci method.

assume accuracy $\text{eps} = 0.01$

initial boundaries $\langle -5, 3 \rangle$

The exercises can be done using an Excel spreadsheet or any language. programming.

Present the results in the form of calculated successive iterations.