

NUMERICAL OPTIMIZATION: ASSIGNMENT 8

DEADLINE: the lab on 2024.05.27

In this assignment, we are going to move with gradient descent to a space with a higher number of dimensions. You can also hand in Assignment 7 for 100% of the points.

1. **3 points** Redo Assignment 7 for bivariate functions. This should include the plots.
2. **2 points** Generalize your gradient descent to accept a function with arbitrarily many variables. Demonstrate it on a function with 3, 5, 50 variables (the function can be simple).