

Optimization – Laboratory 2

Analytical methods

Requirements:

- For the **first part** choose the function from Section 2.3 based on the number assigned in the column **P2** from the current status.
- Based on the graphical representation of the function (contour or mesh), determine the approximate location of the stationary point(s).
- Calculate analytically the stationary points. Determine the type of the points.
- Choose the constraint from Section 2.4. Represent graphically the function and the constraint. Solve the constrained optimization problem. Determine the type of points and verify your conclusion on the graphical representation.