## Optimization - Laboratory 8 Rosenbrock method

The function in Section 5.3 is given by the number in column $\mathbf{P 7}$ from the status.
For $\alpha$ and $\beta$ it is preferred that they are chosen such that $\alpha \beta \neq 1$. The initial directions can be considered the directions of the coordinate axes.

## Requirements:

- Calculate on paper for Rosenbrock method until it reaches oscillation. Compute the new directions.
- Draw the starting point, for each success draw a line to the new point obtained and if it is a failure put x . When the oscillation is reached, draw the new directions obtained.
- Implement in MATLAB Rosenbrock method and draw the lines when a step over the contour of the function was successful.
- Compare the results to those obtained by the Nelder-Mead method.

