

Spoken Tutorial, IIT Bombay

<https://spoken-tutorial.org>

Scilab - FOSSEE Optimisation Toolbox

Constrained Optimization- Assignment

Minimise the following objective function:

$$f(x) = (2\pi x_1 x_2 + 2\pi x_1^2) * 400;$$

subjected to the given constraints:

$$x_1 + x_2 \leq 12$$

$$200 - \pi x_1^2 x_2 \leq 0$$

$$x_1, x_2 \geq 0$$

$$x_0 = [1, 2]$$