

Minimization Problem in SciPy

Minimize  $x_1 x_4 (x_1 + x_2 + x_3) + x_3$

Subject to:  $x_1 x_2 x_3 x_4 \geq 25$

$$x_1^2 + x_2^2 + x_3^2 + x_4^2 = 40$$

$$1 \leq x_1, x_2, x_3, x_4 \leq 5$$

Initial Guess:  $x_0 (1, 5, 5, 1)$