

# Global exercise - GUE12

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**SUMMARY OF CONTENT COVERED:** Numerics

- ✓ Optimization: Line search method
- ✓ Optimization: Newton method
- ✓ Optimization: Demo the 4th programming exercise PRU03

## 1 Line search method

## 2 Step-by-step: Line search method

**Example 1.** *Examine*

Approach:

### 3 Step-by-step: Newton method

**Example 2.** *Examine*

Approach:

## 4 Demo programming exercise PRU03

(White board + Projector)

**Example 3.** *Examine the Rosenbrock function*