Assignment 1 – Manual calculation / Mathematical modelling.

→ objective function:

Maximize $50x + 120y$

→ Subjected to:

Inequality constraint: $10x + 30y \leq 1200$.

Inequality constraint: $7000x + 2000y \leq 700000$

Inequality constraint: $x + y \leq 110$

Boundaries : $x, y \geq 0$

→ objective function matrix: $[-50, -120]$

Ineq. constraints coeff. matrix: $[[10, 30], [7000, 2000], [1, 1]]$

Ineq. constraints constants: $[1200, 700000, 110]$