

Linear Programming

1. Given the **objective function**: $M = 3x + 5y$ and the **constraints**:

$$\begin{cases} x + y \leq 6 \\ 3x - y \leq 4 \\ x \geq 0 \\ y \geq 0 \end{cases}$$

- Graph the constraints.
- Find the vertices of the feasible region.
- Determine the maximum and minimum values of the objective function.

Rule: _____



Linear Programming Procedure:

- 1) _____

- 2) _____

- 3) _____

- 4) _____

