Graphic Method

Math 135 (Hellen Colman)

Problem

Maximize (or minimize) the objective function

Subject to: list of constrains

Method

1. Graph the lines given by each constrain and label them.

2. Shade the right region for each inequality (try with (0, 0) or any other point).

3. Paint with a different kind of shading the feasible region.

4. Find the corners of the feasible region (for each corner solve a system of equations with the two lines that determine the corner).

5. Evaluate the objective function at each corner.

6. Decide which one is the maximal (or minimal) value.