Problem 1. Solving Linear Programming Problems ---- The Graphical Method (20 points)

Read chapter 3 (pp. 25–38), and answer the following questions.

(a) Consider the following statements about linear programming and the simplex method. Label each statement as true or false:

    (1) Given that an optimal solution to a linear programming problem exists, it must occur at a vertex of the feasible set. (   )

    (2) If the optimal solution occurs at two adjacent vertices of the feasible set, then the linear programming problem has infinitely many solutions. Any point on the line segment joining the two vertices is also a solution. (   )

(b) Outline the steps of the graphical method for solving linear programming problems.

    Step 1: Graph the system of constraints. This will give the feasible set.

    Step 2:

    ......

    The last step: State the solution to the problem.

(c) Use the graphical method to solve the following linear programming problem.

    Maximize $Q = 3x + 5y$

$$\text{subject to: } \begin{cases} x + y \leq 6 \\ 2x + y \geq 8 \\ y \geq 0 \end{cases}$$

Linear Programming Practice Problems With Answers

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