

Quiz 1: Linear Optimization Results for Liangrui Lu

Score for this attempt: **9** out of 10

Submitted Sep 12, 2021 at 3:37pm

This attempt took 13 minutes.

问题 1

1 / 1 pts

The optimal solution for a graphical linear programming problem is the corner point that is the farthest from the origin.

☐ True

☒ False

Correct!

问题 2

1 / 1 pts

Multiple optimal solutions occur when constraints are parallel to each other.

☐ True

☒ False

Correct!

问题 3

1 / 1 pts

The feasible solution area contains infinite solutions to the linear program.

Correct!☒ True☐ False**问题 4****1 / 1 pts**

The first step in formulating a linear programming model is to define the constraints.

☐ True**Correct!**☒ False**问题 5****0 / 1 pts**

In the Solver window, the cell that contains the objective function is referred as

Incorrect Answer☐ Objective cell☐ Objective function**You Answered**☒ Target cell☐ Variable cell

问题 6

1 / 1 pts

Modeling efforts should be directed towards the goal of communications, reliability, auditability and modifiability.

Correct!

☒ True☐ False

问题 7

1 / 1 pts

Most computer linear programming packages readily accept constraints entered in fractional form, such as X_1/X_3 .

Correct!

☐ True☒ False

问题 8

0 / 1 pts

What happens to the optimal solution (decision variables) when the RHS of a binding constraint increases within the allowable increase?

Incorrect Answer

☐

Some values in the optimal solution increase and others decrease.

You Answered

☒ The values in the optimal solution do not change.

- ☐ The values in the optimal solution increase.
- ☐ The values in the optimal solution decrease.

问题 9**1 / 1 pts**

If we change the constraint quantity to a value outside the sensitivity range for that constraint quantity, the shadow price will change.

Correct!

- ☒ True
- ☐ False

问题 10**1 / 1 pts**

What of the following situations does not require the LP problem to be revised?

Correct!

- ☐ LP infeasibility
- ☐ LP unboundedness
- ☒ Multiple optimal solutions
- ☐ Non-linear constraints

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This quiz score has been manually adjusted by +1.0 points.