X

Week 5: Assignment 5 (Non Graded)

Assignment not submitted

Note: This assignment is only for practice purpose and it will not be counted towards the Final score

- 1) $f(ar{x})$ is
 - Objective function
 - Hessian matrix
 - O Constraint
 - O Decision variable

No, the answer is incorrect.

Score: 0

Accepted Answers:

Objective function

- 2) $h(ar{x})=0$ is
 - Objective function
 - O Hessian matrix
 - O Equality constraint
 - Inequality constraint

No, the answer is incorrect.

Score: 0

Accepted Answers:

Equality constraint

3) Consider the mutlivariate function $min_{x_1x_2}f(x)=4x_1^2+8x_2^2$ and $s.\ t\ 4x_1+3x_2-14=0$ \qquad 1 point

The values of x_1, x_2 ,and λ from the first order necessary condition are:-

 \bigcirc

$$x_1=2.73, x_2=5.46, \lambda=-1.02$$

$$x_1=2.73, x_2=1.02, \lambda=5.46$$

$$x_1=-1.02, x_2=2.73, \lambda=-5.46$$

 \bigcirc

$$x_1 = -1.02, x_2 = -5.46, \lambda = 2.73$$

No, the answer is incorrect.

Score: 0

Accepted Answers:

$$x_1 = 2.73, x_2 = 1.02, \lambda = 5.46$$

- 4) If the objective function $f(\bar{x})$ is quadratic function and the contraints $h(\bar{x}), g(\bar{x})$ are linear, then **1** point the type of optimization problem is
 - O Linear programming
 - O Quadratic programming
 - O Non linear programming
 - O Stochastic programming

No, the answer is incorrect.

Score: 0

Accepted Answers:

Quadratic programming

Check Answers and Submit

Your score is: 0/4