Quiz 4: Nonlinear Optimization Results for Liangrui Lu

(!) Correct answers are hidden.

Score for this attempt: **10** out of 10 Submitted Nov 11, 2021 at 11:04pm This attempt took 5 minutes.

问题 1	1 / 1 pts
Nonlinear programming has the same format as however either the objective function or the consare nonlinear functions.	
O True	
False	

问题 2	1 / 1 pts
The highest point on each peak of a sur local optimum, but the highest point am only global optimum.	
True	
O False	

问题 3	1 / 1 pts
Decision variables cannot be multiplied by each other in the function of a nonlinear program.	objective
O True	
False	

问题 4	1 / 1 pts
Both linear and nonlinear programming models are example	s of:
constrained likelihood models	
 constrained optimization models 	
simple tableaus	
goal programming models	

The Lagrange multiplier reflects the appropriate change in the objective function for a unit change in the _____ of the constraint equation.

right-hand side	
O objective function	
coefficient	
shadow price	

What solving method is most generally used to solve nonlinear programs in Excel Solver? Simplex LP or GRG Nonlinear LP Simplex GRG Nonlinear Evolutionary

问题 7	1 / 1 pts
When solving a nonlinear program, the message "Solver for solution. All constraints and optimality conditions are satisful means that a global optimal solution has been found for the	fied."
O True	

False			

问题 8	1 / 1 pts
A nonlinear solver like GRG nonlinear is suitable for nonline but it cannot solve most linear models.	ar models
O True	
False	

问题 9	1 / 1 pts
A nonlinear solver ignores the initial decision variables.	
O True	
False	

问题 10 1/1 pts

When working with nonlinear optimization, there is no benefit in linearizing non-linear relationships that can be linearized.

O True		
False		

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