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ACM213 Set 3

Problem 1
A) False: Penalty methods are no longer used in constrained gradient-based optimization because they have been replaced by more effective methods.
B) True
C) True
D) False: A point is optimal if there is no feasible direction that is also a descent direction.
E) True
F) True
G) False: Although it is true that the Lagrange multiplier or the slack variable must be zero, the conditions are not easy to solve.
H) False: " must be positive definite
I) True
J) True
K) False: interior-point methods can start with infeasible points.
L) True

Problem 2: no submission
Problem 3: no submission