

Attendance Quiz for Lecture 3

NAME: (print!) _____

E-MAIL ADDRESS: (print!) _____

1. Set up a linear programming model of the situation described. Determine whether it is in standard form. If not make it standard.

A restaurant chef is planning a meal consisting of two foods, A, and B.

- Each kg of A contains 3 units of fat and 6 units of protein
- Each kg of B contains 1 unit of fat and 3 units of protein

The chef wants the meal to consist of at least 18 units of protein and at most 6 units of fat.

If the profit that he makes is 3 dollars per kg for food A and 5 dollars for food B, how many kilograms of each food should be served so as to **maximize** his profit?