Econ 172A, Fall 2010: Quiz I Answers

Form I:

1. Question 1

   (a) Unique: Yes. The feasible set has a corner.

   (b) Not Feasible: No. The feasible set is non-empty.

   (c) No Solution: Yes. Feasible set is unbounded. ($x_1 = x_2 > 1$ is feasible, can make, for example $x_0 = x_1$ arbitrarily large.)

   (d) $(2, 0)$: Yes. This point is feasible.

2. Question 2

   (a) No.

   (b) Yes.

   (c) No.

   (d) Yes.

   Knowing the amount of Grade A and Grade B produced allows you to figure out how much Corn and Barley you use, but not conversely.

Forms II and III are similar, with slight changes in order and numbers.

Form II: Question 1: (a), (b), yes; (c) and (d) not possible. Question 2: (b) and (c) are true. (a) and (d) are false.

Form III: Question 1: (a), (c) are true; (b) and (d) are false. Question 2: (a) and (c) are true. (b) and (d) are false.