[10] **7.** You are given an $m \times n$ matrix game, A,

(a) Someone thinks that Alice has equilibrium strategy $\vec{x}$, and Betty $\vec{y}$. How could you verify this most quickly? Roughly how much time would this take?

(b) Someone thinks that Alice has equilibrium strategy $\vec{x}$, but has no idea what Betty's equilibrium. How could you verify this most quickly? Roughly how much time would this take?

(c) No one has any idea what the equilibrium strategies are. Outline the equilibrium solving approach in "Poker, Taxes, etc." that does not involve linear programming, and outline the linear programming approach.

(d) Explain how the linear programming approach, combined with guessing which variables (decision and slack) are non-essential, yields the first approach of part (c).

Continued on page 12