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From New York to Iowa: The Experience of a Westward Migrant

by Yasuo Okada

This essay is based on the analysis of a diary of a young farmer who migrated from New York to Iowa in the middle of the nineteenth century. *Diary of Benjamin F. Gue in Rural New York and Pioneer Iowa* edited by Earle D. Ross provides information on the farm operation of the Gue farm in Ontario County, New York, and the change brought about by the migration to Scott County, Iowa. A mass of detail on farm practices in both the fertile Genesee Country and the prairie frontier shows the contrast in the management of Gue's farm between the two regions, and the adjustment necessary in the new environment. In "Squires' Diary: New York Agriculture in Transition, 1840-1860," *New York History*, LII (October, 1971), 396-422, I have shown the experience of another New York farmer who had turned from full-time commercial farming to part-time farming during the same period when Benjamin Gue moved west. It was also possible to stay on the old farm and enlarge the scale of operation, the feasibility of which is shown by David C. Smith in his article, "Middle Range Farming in the Civil War Era: Life on a Farm in Seneca County, 1862-1866," *New York History*, XLVIII (October, 1967), 352-369. The variety of response to the challenge of western competition, declining production, and ravages of insects indicates the diversity of New York agriculture in the mid-nineteenth century.

The Kuhn=Fourier Theorem and Linear Economics

by Kunio Kawamata

It is shown that many of the results on the solvability of the system of linear inequalities known to economists can be derived from a theorem due to Fourier and Kuhn. The theorem can be proved by an elementary method and the statement sounds very natural and innocent. And yet it has a wide range of applicability. Minkowski=Farkas' lemma and Stiemke's theorem are immediate corollaries to the theorem, and other related results can be systematically derived from it. Also as examples of application to economics, proofs of duality theorem in

linear programming and of existence of balanced growth path in Von Neumann growth model are provided based on the Kuhn=Fourier theorem.

Continuous Selections and a Fixed-point Theorem

by Toru Maruyama

One of the problems which has attracted mathematicians in recent years is that of extracting or selecting a single-valued mapping with certain properties like continuity or measurability, from a given multi-valued mapping.

In this paper, I will present a solution for the continuous selection problem, having its applications to economic analysis in mind.

Our main result is as follows: *Let X be a compact metric space and Y be a Banach space. Then any convex-closed valued, lower (or upper) hemi-continuous multi-valued mapping $\varphi: X \rightarrow P(Y)$ has a continuous selection.*

The well-known fixed-point theorem of Kakutani can be proved as an immediate corollary of the above result.