Please vitue by 4/22/66 to:

ABSTRACT

Deshous Ja 503/1

The abstract should be in the form of a brief and concise statement of the main results or points of view of the paper, without demonstrations and with a minimum of formulae. It should not exceed 100 words and should be compressed if possible into a single paragraph. It should be written in the third person. The abstract should be typewritten and in a form suitable for immediate publication in the MONTHLY.

Title: "Generalized Derivatives and Integrals"

This research was done while at the Illinois Institute of Technology in Chicago, Illinois, during the summer of 1965 as a participant in an NSF Research Participation Program for College Mathematics Teachers. Definitions of a generalized derivative have been given in the following three papers:

K. Menger, the Monthly, October, 1957, pp. 58-70; K. Menger and S. Shti,

Proceedings of the National Academy of Sciences, 1955, pp. 591-595;

G. Pall, the Monthly, October, 1957, pp. 71-78. It is shown that the given definitions are equivalent. A definition is given for a generalized integral (using Pall's notation). Various analogs of integration theorems from complex analysis are then explored.



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Institution:. Address:	Name of Author: Daniel L. Hansen	Time	Title of Paper:"Generalized Derivatives and Integrals"
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ABSTRACT OF PAPER

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