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The May Meeting of the Indiana Section

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7. *A proof of the extremal value theorem*, by Professor Gerald Jungck, Bradley University, introduced by the secretary.

It is shown that if $f(x)$ is continuous on $[a, b]$ and if $f(a)$ is not maximum, then the l.u.b. of the set $S = \{c \in (a, b) \mid \exists \text{ a point } d \in [c, b] \ni f(d) > f(x) \text{ for } x \in [a, c]\}$ yields the maximum value of $f(x)$ on $[a, b]$.

8. *Note on the existence of the definite integral*, by Professor C. E. Langenhop, Southern Illinois University and Professor John M. H. Olmsted, Southern Illinois University, presented by Professor Olmsted.

Techniques for establishing existence of mathematical entities based on limit processes are relatively advanced when their values are unknown. For example, the integrability of products involves much greater sophistication than does that of sums. For beginning classes in calculus there is no elementary proof of integrability for continuous functions. However, the two additional assumptions of a bounded derivative and existence of a primitive on the closed interval of integration (both clearly true for the most frequently encountered functions) make a proof of integrability, with a simultaneous proof of the fundamental theorem of integral calculus, practical for consideration in a beginning course.

A. W. MCGAUGHEY, *Secretary*

THE MAY MEETING OF THE INDIANA SECTION

The spring meeting of the Indiana Section of the Mathematical Association of America was held at Butler University, Indianapolis, on Saturday, May 5, 1962, under the aegis of the Indiana School and College Committee on Mathematics. One hundred forty persons attended the meeting, including fifty-one members of the Association.

Professor John Yarnelle of Hanover College, Chairman of the Section, presided at the meeting. New officers of the Section, elected at a brief business meeting, are Professor Ernst Snapper, Indiana University, Chairman; Professor Kaj Nielsen, Butler University, Vice-Chairman; and Professor Paul Mielke, Wabash College, Secretary-Treasurer.

The program for the meeting centered on the study of geometry and consisted of three one-hour lectures, each followed by forty-five minutes of discussion, as follows:

1. *The high school curriculum in geometry or Is Euclid on the skids?*, by Professor R. A. Rosenbaum, Wesleyan University.
2. *The college curriculum in geometry*, by Professor R. H. Bruck, University of Wisconsin.
3. *Lines in projective space*, by Professor H. S. M. Coxeter, University of Toronto.

P. T. MIELKE, *Secretary*

THE MAY MEETING OF THE KENTUCKY SECTION

The annual meeting of the Kentucky Section of the Mathematical Association of America was held at the University of Kentucky, Lexington, Kentucky, on May 5, 1962. Professor A. W. Goodman, Chairman of the Section, presided at both the morning and afternoon sessions. Fifty-seven persons attended the meeting including forty-nine members of the Association.

At the business meeting, the following officers were elected for the coming year: Chairman, Professor W. H. Spragens, University of Louisville; Secretary-Treasurer, Professor W. C. Royster, University of Kentucky.

By invitation Professor B. J. Pettis delivered an hour address at the afternoon session. The title of his address was "Some Comments on the Structure of Mathematics."

The following papers were presented:

1. *The 1961 Curriculum Study in Mathematics*, by Professor A. S. Howard, Eastern Kentucky State College.