

geometric progressions (Chapter XIV). In Chapter XVII (Sequences and Limits), limits of variables are defined and discussed. This fourteen page chapter contains also explanations of the derivative of a power function, of the geometric interpretation of the derivative, and of maxima and minima.

A more detailed study of these texts will, of course, reveal other interesting material, and it will deepen the reader's conviction that the second book follows the traditional lines more closely and that, while the authors of the first and third texts differ radically from one another in their aims, each has succeeded in presenting an attractive book that has a distinct place.

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#### NOTES.

THE twenty-seventh summer meeting and ninth colloquium of the American Mathematical Society will be held at the University of Chicago, extending through the week September 6-11. The regular sessions of the Society and also those of the Mathematical Association of America will occupy the first days of the week, without conflict of hours. The joint dinner will be held on Tuesday evening. The Colloquium will open on Wednesday and extend to Saturday noon. It will consist of two courses of five lectures each by Professors G. D. BIRKHOFF, of Harvard University, and F. R. MOULTON, of the University of Chicago. Titles and principal topics of the lectures follow:

Professor BIRKHOFF: "Dynamical systems." The last forty years have witnessed fundamental advances in the theory of dynamical systems, achieved by Hill, Poincaré, Levi-Civita, Sundman, and others. The lectures will expound the general principles underlying these advances, and will point out their application to the problem of three bodies as well as their significance for general scientific thought. The following topics will be treated:

Physical, formal, and computational aspects of dynamical systems. Types of motions such as periodic and recurrent motions, and motions asymptotic to them. Interrelation of types of motion with particular reference to integrability and