NOTES.

The third (July) number of Volume II. of the Transactions of the American Mathematical Society contains the following papers: "On the convergence of continued fractions with complex elements," by E. B. Van Vleck; "Geometry within a linear spherical complex," by P. F. Smith; "A new determination of the primitive continuous groups in two variables," by H. F. Blichfeldt; "Determination of all the groups of order \( p^n \) which contain the abelian group of type \( (m-2,1) \), \( p \) being any prime," by G. A. Miller; "Zur linearen Transformation der \( \vartheta \)-Reihen," by F. Mertens; "On a fundamental property of a minimum in the calculus of variations, and the proof a theorem of Weierstrass," by W. F. Osgood; "Concerning Harnack's theory of improper definite integrals," by E. H. Moore.


The July number (second series, volume 2, number 4) of the Annals of Mathematics contains the following papers: "Concerning du Bois-Reymond's two relative integrability theorems," by E. H. Moore; "On a theorem of kinematics," by P. Saurel; "The collineations of space which transform a non-degenerate quadric surface into itself," by R. G. Wood; "Note on multiply perfect numbers," by J. Westlund; "The isoperimetrical problem on any surface," by J. K. Whittemore; "On a surface of the sixth order which is touched by the axes of all screws reciprocal to three given screws," by E. W. Hyde; "Note sur l'évaluation d'une intégrale définie," by D. Sintsof.

Cornell University.—During the academic year 1901–1902, the following advanced courses will be offered by the department of mathematics, each course extending through the year unless the contrary is explicitly stated: By Professor L. A. Wait: Advanced analytic geometry, three
hours; Advanced differential calculus three hours.—By Professor J. McMahon: Theoretical mechanics, two hours; Potential functions and spherical harmonics, two hours; Theory of sound, two hours.—By Professor J. H. Tanner: Algebraic invariants, two hours; Reading course in German, two hours.—By Professor Trevor: Mathematical theory of thermodynamics, two hours.—By Dr. J. I. Hutchinson: Advanced integral calculus, two hours; Elliptic, automorphic, and abelian functions, three hours.—By Dr. V. Snyder: Projective geometry, three hours; Algebraic curves, three hours; General function theory, three hours. By Dr. W. B. Fite: Introduction to the theory of groups, three hours; Theory of numbers, two hours.—By Mr. ———: Differential equations, three hours.

Johns Hopkins University.—The following advanced courses are offered by the department of mathematics during the academic year 1901–1902:—By Professor F. Morley: Geometry (advanced course), three hours; The differential equations of physics, two hours, first half year; Kinematics, two hours, second half-year; Mathematical seminary, weekly.—By Dr. A. Cohen: Advanced differential equations, two hours; Theory of algebraic numbers, two hours; Elementary theory of functions, two hours; Elementary differential equations, two hours.

Dr. F. Franklin will give a short course on Probability in the second half-year.

Professors David Hilbert, of Göttingen, Georg Cantor, of Halle, and Ulisse Dini, of Pisa, have been elected honorary foreign members of the London mathematical society.

Dr. G. Zeitner, of Dresden, has been elected a corresponding member of the Paris academy of sciences, in the section of mechanics.

Dr. A. S. Chessin, formerly of Johns Hopkins University, has been appointed professor of mathematics at Washington University, St. Louis, Mo., to succeed Professor E. A. Engler, who was recently elected president of the Worcester Polytechnic Institute.

At Harvard University Mr. J. L. Love has been promoted to an assistant professorship of mathematics.

Dr. W. B. Fite has been promoted to an instructorship in mathematics at Cornell University.
The death is announced of Dr. P. Helmling, formerly professor of mathematics at the University of Dorpat, at the age of eighty-four.

Professor C. S. James, formerly professor of mathematics and physics in Bucknell College, died June 8, 1901.

Professor T. H. Safford, of Williams College, died June 13, 1901, aged sixty-seven years.

NEW PUBLICATIONS.

I. HIGHER MATHEMATICS.

Adam (C.). See Descartes (R.).

Amaldi (U.). See Pincherle (S.).

Andreeff (K. A.). Elements of analytic geometry, with exercises and solutions. Moscow, 1900. Svo. 216 pp. (Russian.) M. 10.00


Donadt (A.). See Autenheimer (F.).

Edser (E.). Differential and integral calculus ; for beginners, adapted to the use of students of physics and mechanics. London, Nelson, 1901. Svo. 254 pp. 2s. 6d.

Ellensson (L.). Die reciproken Polarkurven der Epi- und Hypocykloiden. (Diss.) Bern, 1899. Svo. 103 pp., 1 plate.

