NOTES.

AT the annual meeting of the London mathematical society, held November 1, the following papers were read: By J. H. GRACE, "Tetrahedra in relation to spheres and quadrics"; by M. J. M. HILL, "The continuation of the hypergeometric series"; by W. H. YOUNG, "Restricted Fourier series and the convergence of power series"; by E. B. STOUFFER, "Invariants and covariants of linear homogeneous differential equations"; by H. W. TURNBULL, "The simultaneous system of two quaternary quadratic forms." Professor H. M. MACDONALD was elected president, Professors H. HILTON and E. W. HOB-SON and Sir J. LARMOR vice-presidents, and Dr. T. J. I'A. BROMWICH and MR. G. H. HARDY secretaries.

AT the meeting of the Edinburgh mathematical society on November 9, the following papers were read: By W. P. MILNE, "The apolar locus of two tetrads of points on a conic"; by F. G. W. BROWN, "The Brocard and Tucker circles of a cyclic quadrilateral."

PROFESSOR G. A. GIBSON, of the University of Glasgow, has been elected one of the vice-presidents and Professor E. T. WHITTAKER, of the University of Edinburgh, one of the secretaries of the Royal Society of Edinburgh.

THE December number (volume 19, number 2) of the *Annals of Mathematics* contains the following papers: "Factorization of analytic functions of several variables," by W. F. OSGOOD; "An application of Fourier's series to probability," by D. F. BARROW; "Conjugate systems of curves both of whose Laplace transforms are lines of curvature," by J. M. STETSON; "A theorem on lattice-points," by A. J. KEMPNER; "On continuous representations of a square upon itself," by H. L. SMITH; "Roots and singular points of semi-analytic functions," by DUNHAM JACKSON; "Some properties of polynomial curves," by FRANK IRWIN and H. N. WRIGHT.

ON account of conditions due to the war, no Benjamin Peirce instructors will be appointed at Harvard this year.

THE following university and college teachers of mathematics have recently entered the national military service:

PROFESSOR L. K. ADKINS, of the Wisconsin State Normal School at La Crosse, has been appointed first lieutenant in the regular army and ordered to France. Associate professor C. A. EPPERSON, of the Normal School at Kirksville, Mo., is in military training at Fort Sheridan. Mr. M. HEDLUND, of Beloit College, has been appointed second lieutenant in the Adjutant General's office. Mr. H. H. PRIDE, of New York University, has been appointed second lieutenant in the National Army. Assistant professor P. L. THORNE, of New York University, is in military training at Plattsburg. Assistant professor C. H. YEATON, of Northwestern University, has joined the Signal Corps.

MR. W. D. LAMBERT, of the Coast and Geodetic Survey, has been appointed first lieutenant in the army.

PROFESSOR A. O. LEUSCHNER, of the University of California, has been delegated to administer the details of instruction in the navigation schools of the United States Shipping Board on the Pacific coast, and in particular to provide qualified instructors.

PROFESSOR H. E. HAWKES, of the department of mathematics, Columbia University, has been made acting dean of Columbia College during the absence of Dean Keppel on government service.

AT Western Reserve University, MR. D. R. BELCHER, of Columbia University, has been appointed instructor in mathematics in Adelbert College. At the College for Women, Professor ANNA H. PALMIÉ has been granted leave of absence, Mrs. W. E. BECKWITH has been promoted to an assistant professorship, and Dr. MARY F. CURTIS has been appointed instructor in mathematics.

DR. J. E. McATEE has been appointed associate professor of mathematics at William Jewell College.

AT the University of Maine, assistant professor T. L. HAMLIN has resigned to accept a position in the department of mathematics at Union College and associate professor H. R.

WILLARD has been appointed statistician under Mr. Hoover at Washington.

ASSOCIATE professor E. H. JONES, of the Southern Methodist University, Dallas, Texas, has been promoted to a full professorship of mathematics.

DR. G. H. LIGHT, of the University of Colorado, has been promoted to an assistant professorship of mathematics.

AT the University of Iowa, associate professor R. P. BAKER has been made acting head of the department of mathematics. Mr. R. E. GLEASON and Mr. F. M. WEIDA have been appointed instructors in mathematics.

AT Louisiana State University, assistant professor S. T. SANDERS has been made head of the department of mathematics, and Dr. I. C. NICHOLS has been appointed associate professor.

DR. GOLDIE P. HORTON has been made instructor in mathematics at the University of Texas.

MR. C. H. CLEVENGER, of the University of Minnesota, has resigned to undertake industrial research at the University of Illinois.

MR. J. B. ROSENBACH has been appointed instructor in mathematics at the University of New Mexico.

MRS. M. LOGSDON, of Hastings College, has been appointed instructor in mathematics at Northwestern University.

MR. O. W. ALBERT has been appointed instructor in mathematics at Grinnell College.

MR. L. H. RICE, of Syracuse University, has been appointed instructor in mathematics at Tufts College.

MISS MARION E. STARK, of Brown University, has been appointed professor of mathematics at Meredith College, Raleigh, N. C.

MR. VERN JAMES, of Indiana University, has been appointed instructor in mathematics at the Carnegie Institute of Technology.

Mr. C. T. Levy, of the University of Oklahoma, died July 23, 1917.

Professor S. F. Norris, of Baltimore City College, died September 4, 1917.

Professor J. F. Millis, of the Parker School, Chicago, died October 25, 1917, at the age of forty-two years. He was joint author of the Stone-Millis series of elementary mathematical text-books.

NEW PUBLICATIONS.

I. HIGHER MATHEMATICS.

Amoroso (L.) e Bompiani (E.). Esercizi di geometria analitica e proiettiva, con prefazione del G. Castelnuovo. Pavia, Mattei, 1917. 8vo. 12 + 475 pp. L. 16.00

Bompiani (E.). See Amoroso (L.).

Castelnuovo (G.). See Amoroso (L.).

Hermite (C.). Oeuvres de Charles Hermite publiées sous les auspices de l'Académie des Sciences par E. Picard. Tome IV et dernier. Paris, Gauthier-Villars, 1917. 8vo. 6 + 596 pp. Fr. 25.00

Merz (K.). Zur Erkenntnistheorie über Raum und Zahl, aus Historischem der Steinerschen Fläche. Croire, Librairie Schuler, 1917. 8vo. 48 pp. Fr. 1.00

D'Ocagne (M.). Cours de géométrie pure et appliquée de l'Ecole Polytechnique. Tome I: Transformations géométriques. Perspective. Géométrie infinitésimale. Géométrie réglée. Géométrie cinématique. Paris, Gauthier-Villars, 1917. 8vo. 12 + 375 pp. Fr. 16.00

Phillips (H. B.). Differential and integral calculus. New York, Wiley, 1916–1917. 5 + 162 + 5 + 194 pp. Cloth. $2.00

———. Integral calculus. New York, Wiley, 1917. 5 + 194 pp. Cloth. $1.25

Picard (E.). See Hermite (C.).

Prompt (–.). Recherches analytiques sur les carrés magiques. Paris, Gauthier-Villars, 1917. 8vo. 34 pp. Fr. 2.20

Skinner (E. B.). College algebra. New York, Macmillan, 1917. 12mo. 8 + 263 pp. Cloth. $1.50

II. ELEMENTARY MATHEMATICS.

Bauer (G. N.) and Brooke (W. E.). Plane and spherical trigonometry Second revised edition. Boston, Heath, 1917. 12 + 174 pp.

———. Logarithmic and trigonometric tables. Boston, Heath, 1917. 4 + 139 pp.

Breslich (E. R.). Logarithmic and trigonometric tables and mathematical formulas. Chicago, University of Chicago Press, 1917. 17 + 118 pp. Cloth. $0.75