NOTES.

THE July number (volume 8, number 3) of the Transactions of the AMERICAN MATHEMATICAL SOCIETY contains the following papers: "General theory of approximation by functions involving a given number of arbitrary parameters," by J. W. YOUNG; "On derivatives over assemblages," by E. R. HED-RICK; "Geometrie proiettive di congruenza e geometrie proiettive finite," by B. LEVI; "Collineations in a finite projective geometry," by O. VEBLEN; "Geometry in which the sum of the angles of every triangle is two right angles," by R. L. MOORE; "Non-desarguesian and non-pascalian geometries," by O. VEBLEN and J. H. MACLAGAN-WEDDERBURN; "Modular theory of group matrices," by L. E. DICKSON; "Existence proof for a field of extremals tangent to a given curve," by O. BOLZA; "A new form of the simplest problem of the calculus of variations," by G. A. BLISS; "On certain isothermic surfaces," by A. E. YOUNG.

THE University of Illinois has been added to the list of institutions contributing to the support of the *Transactions*.

THE concluding (July) number of volume 8 of the Annals of Mathematics contains: "Multiply perfect numbers of four different primes," by R. D. CARMICHAEL; "On a system of parastroids," by R. P. STEPHENS; "A peculiar example in minima of surfaces," by E. R. HEDRICK: "On maximum and minimum values of the modulus of a polynomial," by D. N. LEHMER; "On the minimum surface of revolution in the case of one variable end point," by Miss M. E. SIN-CLAIR; "On the polynomial convergents of a power series," by M. B. PORTER.

THE annual list of American doctorates published in *Science* presents for the academic year 1906–1907 327 names, of which 168 are credited to the sciences. The following 13 successful candidates offered mathematics as major subject (the titles of the theses are appended): Miss F. A. ALLEN, Wisconsin, "On the determination of cyclic involutions of order three"; C. S. ATCHISON, Johns Hopkins, "Curves with a directrix"; G. D. BIRKHOFF, Chicago, "Asymptotic properties of certain ordinary differential equations with applications to boundary value and expansion problems"; W. C. BRENKE, Harvard, "A con-