TRANSACTIONS

OF THE

AMERICAN MATHEMATICAL SOCIETY

EDITED BY

GEORGE DAVID BIRKHOFF

ARTHUR BYRON COBLE

LUTHER PFAHLER EISENHART

OLIVER E. GLENN EDWARD KASNER HOWARD H. MITCHELL FOREST R. MOULTON

WITH THE COOPERATION OF WALLIE A. HURWITZ AUBREY J. KEMPNER WILLIAM R. LONGLEY CHARLES N. MOORE ROBERT L. MOORE FRANCIS R. SHARPE JOSEPH H. M. WED

ERNEST J. WILCZYNSKI

DUNHAM JACKSON JOSEPH H. M. WEDDERBURN

VOLUME 22 1921

PUBLISHED BY THE SOCIETY LANCASTER, PA., AND NEW YORK 1921

Reprinted with the permission of The American Mathematical Society

JOHNSON REPRINT CORPORATION 111 Fifth Avenue, New York 3, N. Y.

JOHNSON REPRINT COMPANY LIMITED Berkeley Square House, London, W. 1

TABLE OF CONTENTS

VOLUME 22 1921

	PAGE
Bell, E. T., of Seattle, Wash. Arithmetical paraphrases	1
——. Arithmetical paraphrases (continued)	198
—. On restricted systems of higher indeterminate equations	483
DICKSON, L. E., of Chicago, Ill. Determination of all general homo-	
geneous polynomials expressible as determinants with linear elements.	167
Douglas, J., of New York, N. Y. On certain two-point properties of	
general families of curves	289
ETTLINGER, H. J., of Austin, Tex. Oscillation theorems for the real, self-	
adjoint linear system of the second order	136
FITE, W. B., of New York, N. Y. Properties of the solutions of certain	
functional differential equations	311
GLENN, O. E., of Lansdowne, Pa. Author's correction	
GRONWALL, T. H., of New York, N. Y. Differential variations in ballis-	
tics, with applications to the qualitative properties of the trajectory	505
HAZLETT, OLIVE B., of South Hadley, Mass. New proofs of certain	
finiteness theorems in the theory of modular covariants	
HURWITZ, W. A., of Ithaca, N. Y. An expansion theorem for a system	
of linear differential equations of the first order	
JACKSON, D., of Minneapolis, Minn. On functions of closest approxima-	
tion	
On the convergence of certain trigonometric and polynomial	
approximations	
—. Note on a class of polynomials of approximation	
KAKEYA, S., of Tōkyō, Japan. Maximum modulus of some expressions	
of limited analytic functions	
KEMPNER, A. J., of Urbana, Ill. Polynomials and their residue systems	
—. Polynomials and their residue systems (continued)	
LEFSCHETZ, S., of Lawrence, Kans. On certain numerical invariants of	f
algebraic varieties with application to Abelian varieties	327
On certain numerical invariants of algebraic varieties with applica-	•
tion to Abelian varieties (continued)	
MOORE, R. L., of Austin, Tex. Concerning certain equicontinuous	
systems of curves	
MORSE, H. M., of Cambridge, Mass. Recurrent geodesics on a surface	•
of negative curvature	84
NELSON, A. L., of Ann Arbor, Mich. Pseudo-canonical forms and in-	
variants of systems of partial differential equations	
•	

REYNOLDS, Jr., C. N., of Hanover, N. H. On the zeros of solutions of	
homogeneous linear differential equations	220
SHARPE, F. R., and SNYDER, V., of Ithaca, N. Y. The construction of	
algebraic correspondences between two algebraic curves	31
SNYDER, V., and SHARPE, F. R., of Ithaca, N. Y. The construction of	
algebraic correspondences between two algebraic curves	31
Walsh, F. L., of Cambridge, Mass. On the location of the roots of the	
jacobian of two binary forms, and of the derivative of a rational	
function	101
—. A generalization of the Fourier cosine series	230
WEDDERBURN, J. H. M., of Princeton, N. J. On division algebras	129
White, H. S., of Poughkeepsie, N. Y. A property of two $(n + 1)$ -gons	
inscribed in a norm curve in <i>n</i> -space	80
WILLIAMS, W. L. G., of Williamsburg, Va. Fundamental systems of	
formal modular seminvariants of the binary cubic	56