

which satisfy $T(x, y) = 0$. No curves represented by equations of the form $\varphi_1(x, y) = 0$, $\varphi_2(x, y) = 0$ can intersect on the sine curve or the tangent curve excepting at the origin, nor on the exponential curve $x = e^y$ excepting in the point $(1, 0)$.

2. The system $\varphi_1(x, y) + p(t)\varphi_2(x, y) = 0$, $\varphi_3(x, y) = 0$, $\varphi_4(x, y) = 0$ can have no simultaneous solutions except those, if any, which simultaneously satisfy $\varphi_1 = 0$, $\varphi_2 = 0$, $\varphi_3 = 0$, $\varphi_4 = 0$, where $p(t)$ is a polynomial in t , a transcendental number.

3. All the singularities of the curves represented by $\psi(x, y) \equiv \varphi_1(x, y) + t\varphi_2(x, y) = 0$ which require $\partial\psi/\partial x = 0$ and $\partial\psi/\partial y = 0$, lie upon $\varphi_1(x, y) = 0$ and $\varphi_2(x, y) = 0$ if there are any at all.

4. All singularities of $\varphi_0(x, y) + p_1(t)\varphi_1(x, y) + \dots + p_n(t)\varphi_n(x, y) = 0$ must lie upon each of the curves represented by the equations $\varphi = 0$, $\varphi_1 = 0$, \dots , $\varphi_n = 0$ where $p_i(t)$, ($i = 1, \dots, n$), are polynomials in t , a transcendental number, the coefficients of the polynomials being algebraic numbers.

13. In this paper, Professor Bennett examines by elementary methods the form of a closed algebraic correspondence upon an algebraic curve or Riemann surface. As a result of certain elementary properties of involutions, and the group properties of closed algebraic and finite systems of points, the relations between closed correspondences and variable inscribed plane configurations are described. A systematic method of securing fundamentally different generalizations of the closure problems arising in connection with Poncelet polygons is obtained.

ARNOLD DRESDEN,
Secretary of the Section.

THE TWENTY-THIRD ANNUAL MEETING OF THE AMERICAN MATHEMATICAL SOCIETY.

THE twenty-third annual meeting of the Society, which was held in New York City on Wednesday and Thursday, December 27-28, 1916, was in several respects an exceptional occasion. It took place in the midst of the convocation week series of meetings of the American association for the advance-