Siret, Y.

AN EXAMPLE OF FORMAL COMPUTATION: OBTAINING THE DISCRIMINANT OF AN EQUATION BY J. A. SERRET'S METHOD

(Un exemple de calcul formel: Obtention du discriminant d'une équation par la méthode de J. A. Serret).

Revue française d'informatique et de recherche opérationnelle, (France), No. 9, 1968.

Serret's algorithm, which allows to obtain the expression of the discriminant (as a function of the coefficients of an algebraic equation) is recalled. This algorithm is further programmed, a very interesting technique being used for the formal treatment of polynomials: the recurrent representation of polynomials according to the number of variables.

The paper endeavours to prove that many classical algorithms can be achieved by machine.

A.M.B.