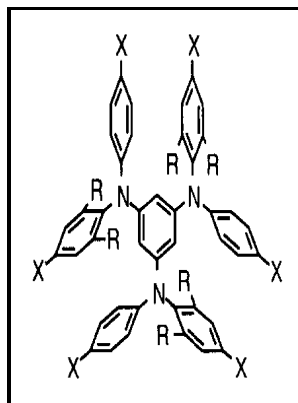


Determination of the type of the tricurunodal quartic by means of its invariants.

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Description: -

-Determination of the type of the tricurunodal quartic by means of its invariants.

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Notes: (Reprinted from the American Journal of Mathematics, Vol. 48, No. 4, p. 241-252)

This edition was published in 1900



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Vol. 48, No. 4, Oct., 1926 of American Journal of Mathematics on JSTOR

We similarly check the remaining tables entries. In , a quartic function, or equation of the fourth degree, is a of the form where a is nonzero; or in other words, a of four.

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Ferrari's solution in the special case of real coefficients If the coefficients of the quartic equation are real then the nested depressed cubic equation 5 also has real coefficients, thus it has at least one real root.

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Let The resulting equation is which is a depressed quartic equation. Consequently, F 3 , F 4 and F 5 are absolutely abelian, whereas F 1 , F 2 , F 6 and F 7 are not.

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The second term, αu^2 did not disappear, but its sign has changed and it has been moved to the right side. The quartic is the highest order polynomial equation that can be solved by in the general case i.

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On the classification of certain 6

Using this root the term in 8 is always real, which ensures that the two quadratic equations 8 have real coefficients. Summary of Ferrari's method
Given the quartic equation its solution can be found by means of the following calculations: If then Otherwise, continue with either sign of the square root will do there are 3 complex roots, any one of them will do As stated above, Cardano credited Ferrari as the first to discover one of these solutions. The American Journal of Mathematics is used as a basic reference work in academic libraries, both in the United States and abroad.

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