

One class of equations solvable in radicals

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Abstract

We derive recurrent formulas for obtaining minimal polynomials for values of tangents and show that Galois groups of these polynomials are commutative. Thus we give examples of equations of arbitrarily high degrees solvable in radicals. © 2011 Allerton Press, Inc.

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Keywords

cyclic polynomial, Euler function, extension degree, finite extension of numeric field, Galois groups of polynomials and field extensions, irreducible polynomial, modulo residue system