
Solutions of the equation $a_n + (a_{n_1} + \dots + (a_2 + (a_1 + x^{r_1})^{r_2} \dots)^{r_n} = bx$

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We will discuss some problems in dynamical systems where the given equations arise and introduce a novel upper bound for their real solutions. Our approach involves a generalized derivation-division algorithm, which not only provides the bound but also leads to a new set of Chebyshev functions specifically designed for this context.
