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## On equation $f(x) = g(y)$

IVICA GUSIC<sup>1</sup> <igusic@fkit.hr>

We discuss the following problem: Given natural numbers  $m, n$  and a polynomial  $f$  over the field of rational numbers with degree  $n$ , does there exist a nontrivial polynomial  $g$  over the field of rational numbers with degree  $m$  such that the equation  $f(x) = g(y)$  has no rational solution.

[1] Ivica Gusic: *A characterization of linear polynomials*, Journal of Number Theory (in press)

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<sup>1</sup>Faculty of Chemical Engineering and Technology, University of Zagreb