

Remarks on Certain Parametrized Algebraic Equations

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We consider several instances of pairs of integer sequences $(c(p, n), a(p, n))$, for integer $n \geq 0$, and rational parameters $p > 0$, that are interrelated through:
 $\exp(\sum_{n=1}^{\infty} c(p, n) \cdot \frac{t^n}{n}) = \sum_{n=0}^{\infty} a(p, n) \cdot t^n$. Exact statements (Kontsevich, Reutenauer...) indicate that the algebraicity of theorems of this type approach by guessings such algebraic gf's of $c(p, n)$ that furnish algebraic gf's of $a(p, n)$'s. We use the $c(p, n)$'s in form containing

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