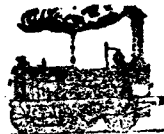


Ignacio Darnaude Rojas-Marcos
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Dear Sir,

Please first realize this unexpected request is not a routine petition at all, but an old unresolved soul-problem to the writer, a graduated in Economics and by the way enamoured of Mathematics, his second lifelong love affair. (He holds on his file, for instance, a sort of solution to the handsome exponential equation $A^x + B^x = C$).

I am extremely interested in finding finally, after many years of fruitless search, the rather arcane answer to my personal "Fermat Last Theorem", I think an easy task for Euler or Galois, the mysterious integral which reads as follows: "Indefinite integral of (x elevated to x), by differential x^x ":

$$\int x^x dx$$

In other words I am looking for some elusive primitive algebraical function that, derived, result into the beautifully complex, elegant potential-exponential expression " x^x ".

Be sure this remote friend Ignacio would be delighted if you wisely make the Sevillian happy forwarding him his keenly wanted explanation of this damned integral $\int x^x dx$, send him the address of possible academic sources of information (the most prestigious worldwide university departments specialized in Math), or specific bibliography dealing with $\int x^x dx$.

I remain mathematically and of course humanly grateful to you for such an integral informative favour.

With my warmest regards

Ignacio Darnaude