

Re: nested roots

Source: <http://sci.tech--archive.net/Archive/sci.math.symbolic/2004-12/0299.html>

From: Carl Devore (devore_at_math.udel.edu)

Date: 12/21/04

Date: Tue, 21 Dec 2004 18:46:40 -0500

On 21 Dec 2004, Phidippus wrote:

> *Carl Devore wrote:*

>> *Why do you say that it is too complicated? Are you getting an error
>> message?*

>

> *It never finishes computing after several hours and also the
> application shutdowns by itself after some point.*

>

>> *Each RootOf in the above expression represents the two solutions of a
>> quadratic equation.*

>

> *This is sad because I have billions of combinations...*

Well, do you want the identical RootOf's to be independent or not? The usual situation is that they are dependent, which reduces the number of solutions.

>> *You could just use Maple's fsolve command for that.*

>

> *Hm... I feel this is exactly what I want, but this did not work. The
> expressions inside my RootOf has many many exponential functions and
> the highest order is Z^4 [i think]. When I used `evala(Norm(x-mine))`, I
> was still left with lots of RootOf expressions. Is there any way to get
> around this?*

I think you better show me the worksheet. You just need to show the commands that generate the output — you do not need to show the output itself.