

Re: equation

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On Mar 3, 1:06 pm, "adriano meis" <doreciakg...@xxxxxxxx> wrote:

I have the free maxima 5.12
can I solve a linear finite difference equation,
in a symbolic way, with Maxima?
For example, if I give to Maxima the input:
 $x(n+1)+x(n)=0$
then Maxima have to give me the output:
 $x(n)=c*(-1)^n$. (where c depends on initial condition).

The package solve_rec can solve some difference equations.

```
load (solve_rec);  
solve_rec (x[n] + x[n + 1]=0, x[n]);  
=> x[n] = %k[1]*(-1)^n
```

I think solve_rec is in Maxima 5.12. If not just
get a later version.

There might be another package for difference equations,
I don't remember for sure.

HTH

Robert Dodier

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