

need help solving this.

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Source: <http://sci.tech-archive.net/Archive/sci.math/2005-04/msg04360.html>

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 - *Date:* 28 Apr 2005 14:08:14 -0700
-

hello group.

let's say you have the following system.

$$\begin{cases} a'[t] == -p1 a[t] - p3 c[t], \\ b'[t] == p3 c[t] - p2 b[t] \end{cases}$$

with initial conditions {a[0]==a0, b[0]== b0, c[0]==c0}

the system is underdetermined? as there are more variables then number of equations?

so if i add the a'[t] and b'[t] equations to get

$$\begin{cases} a'[t]+ b'[t] == -p1 a[t] -p2 b[t] \end{cases}$$

what type of method of solution is this? is the equation above solvable? if so, how will i go about doing this?

also....

can I divide b'[t] by a'[t]? like...

$$\frac{b'[t] p3 c[t] - p2 b[t]}{a'[t] -p1 a[t] - p3 c[t]}$$

and if so... how do I get rid of c[t] ?

if the notation is comfusing, then above is essentially same as...

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$$\begin{array}{r} Y' p3 Z - p2 Y \\ \hline X' -p1 X - p3 Z \end{array}$$

i need to get rid of Z.

is there a method of solution for the above system?

thanks all in advance.

• *Follow-Ups:*

◆ **Re: need help solving this.**

◇ *From:* alain verghote

◆ **Re: need help solving this.**

◇ *From:* Torsten Hennig

◆ **Re: need help solving this.**

◇ *From:* Gerry Myerson

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