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 Ans HWSet 5 - Solution manual Numerical Computing with MATLAB
 Solutions Manual to accompany Applied Numerical Methods With MATLAB for Engineers and Scientists

Steven C. Chapra Tufts University CHAPTER 1 1.1
 You are given the following differential equation with the initial condition, $v(t=0) = 0$, $c \frac{dv}{dt} + mg = m \frac{dv}{dt}$ Multiply both sides $m \frac{dv}{dt} = mg - c \frac{dv}{dt}$ Define a $m \frac{dv}{dt} = mg - c \frac{dv}{dt}$ Integrate separation of variables, $dv = \frac{mg - c \frac{dv}{dt}}{m} dt$ A table of integrals can be consulted to find that $\int \frac{1}{1 + \tanh^2 x} dx = \frac{1}{2} \ln \frac{1 + \tanh x}{1 - \tanh x} + C$ Therefore, the integration yields $v = \frac{mg}{c} \tanh^2 \left(\frac{ct}{2m} \right) + C$...
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The solution to the rst equation in terms of B is given by $A = 1000B$. When substituted into the second equation we obtain $1000(1000B)B = 1000$ (55)

Which has as its solution $B = 0$. Thus $A = 1$ giving in total the solution y of $y(t) = \sin(t) + Ce^{1000t}$ (56)

using the initial condition $y(0) = 1$ we obtain $C = 1$

and the total analytical solution is given by

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homework set answers bs23 algorithm.

experimentally. `ode23tx(inline('t^0','t','y'),[0 10],0);`
`err max(abs(y-t)) err ode23tx(inline('t^1','t','y'),[0`
`10. Sign inRegister.`

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