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$y'' + 4y' + 4y = 0$  or  $y'' + 4y' + 4y = 1$  where the  
first term to the right of the equal sign  
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is the particular solution. For our case,

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$v(0) = 0$ , so the final solution is. (e c  
mt c mg v1 ( ' / ) ' = - - .

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program. Preview text. Solutions  
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Engineers and Scientists Steven C.  
Chapra Tufts University CHAPTER 1  
1.1 You are given the following  
differential equation with the initial  
condition,  $v(t=0) = 0$ ,  $c \frac{dv}{dt} + mg - \frac{c}{2} v^2 = 0$   
Multiply both sides  $m \frac{dv}{dt} + mg - \frac{c}{2} v^2 = 0$   
 $c \frac{dv}{dt} = \frac{c}{2} v^2 - mg$  Define  $a = \frac{mg}{c}$   $\frac{dv}{dt} = \frac{1}{2} v^2 - a$   
Integrate separation of variables,  $\frac{dv}{\frac{1}{2} v^2 - a} = dt$   
 $\frac{1}{\frac{1}{2} v^2 - a} = \frac{1}{a} \frac{1}{\frac{1}{2} \left(\frac{v}{a}\right)^2 - 1} = \frac{1}{a} \frac{1}{\frac{1}{2} x^2 - 1}$   
A table of integrals  
can be consulted to find that  $\int \frac{dx}{x^2 - 1} = \frac{1}{2} \ln \left| \frac{x-1}{x+1} \right| + C$   
tanh ...

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Steven Chapra was an environmental engineer in the Department of Civil and Environmental Engineering at Tufts School of Engineering. He received his Ph.D. from the University of Michigan and his B.S. and M.E. from Manhattan College. He has worked for the U.S. EPA, NOAA, Texas A&M University, and the University of Colorado.

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