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B is given by  $A = 1000B$ . When substituted into the second equation we obtain  $1000(1000B) = 1000(55)$  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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initial condition,  $v(t=0) = 0$ ,  $c \frac{dv}{dt} = g - \frac{c}{d} v^2$   
Multiply both sides  $m \frac{dv}{dt} = m g - \frac{c}{d} v^2$   
Define  $a = \frac{mg}{c}$ ,  $b = \frac{c}{d}$   $\frac{dv}{dt} = a - b v^2$  Integrate  
separation of variables,  $\frac{dv}{a - b v^2} = dt$  A  
table of integrals can be consulted to find  
that  $\int \frac{dx}{a^2 - x^2} = \frac{1}{2a} \tanh^{-1} \frac{x}{a}$  Therefore, the  
integration yields  $\frac{1}{2a} \tanh^{-1} \frac{v}{a} = t + C$  ...

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