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