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The solution to the rst 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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