

## Applied Numerical Methods With Matlab For Engineers And Scientists Solutions Manual

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1.1 You are given the following differential equation with the initial condition,  $v(t=0) = 0$ ,  $v^2 = m/c \frac{dv}{dt} + g$ . Multiply both sides by  $m/c$ .  $gv^2 = m \frac{dv}{dt} + mg$ . Define  $a = mg/c$ .  $a v^2 = dt \frac{dv}{m/c} + a$ . Integrate by separation of variables,  $\int \frac{dv}{v^2 - a} = \int \frac{dt}{m/c}$ .

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