

## Applied Numerical Methods With Matlab Solutions

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**Solution Manual Applied Numerical Methods with Matlab**

1.1 You are given the following differential equation with the initial condition,  $v(t=0) = 0$ ,  $v \, m \, dv/dt = -m \, c \, d$ . Multiply both sides by  $m/c \, dv$ . Define  $a = mg/c$ ,  $a \, v^2 \, dt = dv \, c \, d$ . Integrate by separation of variables,  $dt = \frac{1}{a} \int \frac{dv}{v^2 - c}$ .

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