

Applied Numerical Methods With Matlab 2nd Edition Solution Manual

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

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