

Applied Numerical Methods With Matlab For Engineers And Scientists 3rd Solutions

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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 g dt dv m cd . Multiply both sides by m/cd . gv^2 c m dt dv c m dd m . Define $a = mg/cd$. a^2v^2 dt dv c m . d m . Integrate by separation of variables, dt m c a v \int dv d 2 -2 .

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