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## Solutions

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Numerical Methods With MATLAB for Engineers and Scientists Steven C. Chapra Tufts University CHAPTER 1

1.1 You are given the following differential equation with the initial condition,  $v(t=0) = 0$ ,  $c \frac{dv}{dt} = mg - cv^2$

Multiply both sides  $m \frac{dv}{m} = \frac{mg}{c} \frac{dt}{v^2} - dt$  Define a  $\frac{mg}{c} = a$

$\frac{dv}{a - v^2} = dt$  Integrate separation of variables,  $\int \frac{dv}{a - v^2} = \int dt$  A table of integrals can be consulted to find that  $\int \frac{dx}{a^2 - x^2} = \frac{1}{2a} \ln \left| \frac{a+x}{a-x} \right| + C$  ... Solution Manual - Applied Numerical Methods with Matlab ... Solution Manual for Numerical Methods for Engineers 7th Edition by Chapra. Full file at <https://testbanku.eu/> (PDF) Solution-Manual-for-Numerical-Methods-for-Engineers ... Unlike static PDF Applied Numerical Methods With MATLAB For Engineers

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