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MATLAB for Engineers and Scientists

Steven C. Chapra Tufts University . 1

CHAPTER 1 1.1 You are given the following differential equation with the initial condition,  $v(t = 0) = 0$ ,  $v^2 m c g dt$

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Engineers and Scientists Steven C.

Chapra Tufts University CHAPTER 1 1.1

You are given the following differential equation with the initial condition,  $v(t=0) = 0$ ,  
$$m \frac{dv}{dt} = mg - c v^2$$
  
Multiply both sides by  $\frac{dv}{v^2}$  and integrate using separation of variables,  
$$\int \frac{dv}{v^2} = \int \left( \frac{mg}{c v^2} - \frac{dv}{dt} \right) dt$$
  
A table of integrals can be consulted to find that

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$\frac{dx}{x} = \frac{1}{\tanh^2 a} \frac{da}{a}$  Therefore, the  
integration yields  $\ln v = c + \dots$

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