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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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You are given the following differential

equation with the initial condition,  $v(t = 0) =$

$0$ ,  $c \frac{dv}{dt} = m g - c v^2$  Multiply both sides  $m$

$\frac{dv}{m g - c v^2} = dt$  Define  $a = \frac{m g}{c}$

$\frac{dv}{a^2 - v^2} = dt$  Integrate separation of

variables,  $\int \frac{dv}{a^2 - v^2} = \int dt$  A table of

integrals can be consulted to find that  $\int \frac{dx}{a^2 - x^2} = \frac{1}{2a} \ln \left| \frac{a+x}{a-x} \right| + C$

Therefore, the

integration yields  $\frac{1}{2a} \ln \left| \frac{a+v}{a-v} \right| = t + C$  ...

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rather than by mathematics. That said,  
sufficient theory is provided so that  
students come away with insight into the  
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