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following differential

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equation with the initial

condition,  $v(t=0) = 0$ ,  $c \frac{dv}{dt} = mg - \frac{c}{2} v^2$

Multiply

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

Define  $a = \frac{mg}{c}$

$\frac{dv}{dt} = a - \frac{1}{2} v^2$

Integrate separation of

variables,  $\int \frac{dv}{a - \frac{1}{2} v^2} = \int \frac{dt}{m}$

A table of integrals

can be consulted to find

that  $\int \frac{dx}{x^2 - a^2} = \frac{1}{2a} \ln \left| \frac{x-a}{x+a} \right| + C$

Therefore, the

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

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where the first term to the right of the equal sign is the general solution and the second is the particular

solution. For our case,  $v(0) = 0$ , so the final solution is

$$v(t) = \frac{1}{m} \int_0^t c \cos(\omega t) dt + v(0)$$

The numerical solution can be implemented as

$$v(t) = \frac{1}{m} \int_0^t c \cos(\omega t) dt + v(0) = \frac{1}{m} \left[ \frac{c}{\omega} \sin(\omega t) \right]_0^t + v(0) = \frac{c}{m\omega} \sin(\omega t) + v(0)$$

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