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Chapra Tufts University CHAPTER 1 1.1

You are given the following differential equation with the initial condition,  $v(t=0) = 0$ ,  $c \frac{dv}{dt} + g v^2 = m$

Multiply both sides by  $\frac{1}{v^2}$  to get  $\frac{c}{v^2} \frac{dv}{dt} + g = \frac{m}{v^2}$

Define  $u = \frac{1}{v}$ , then  $\frac{du}{dt} = -\frac{1}{v^2} \frac{dv}{dt}$

Integrate separation of variables,  $\int \frac{c}{v^2} \frac{dv}{dt} dt + \int g dt = \int \frac{m}{v^2} dt$

A table of integrals can be consulted to find that  $\int \frac{1}{v^2} dt = -\frac{1}{v} + C$

Therefore, the integration yields  $\frac{c}{v} + g t = \frac{m}{v} + C$

...

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