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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 $\int \frac{1}{v^2} dv = -\frac{1}{v} + C$. Therefore, the integration yields $\frac{1}{v} = \frac{m}{c} t + C$...

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