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You are given the following differential equation with the initial condition, $v(0) = 0$, $c \frac{dv}{dt} + g v^2 = m$. Multiply both sides by $\frac{dv}{v^2}$ to get $\frac{c}{v^2} \frac{dv}{dt} + \frac{g}{v} = \frac{m}{v^2}$. Define $u = \frac{1}{v}$, then $\frac{du}{dt} + gu = \frac{m}{c} u^2$. Integrate separation of variables, $\int \frac{du}{u^2 + \frac{m}{cg}}$. A table of integrals can be consulted to find that $\int \frac{dx}{x^2 + a^2} = \frac{1}{a} \tan^{-1} \frac{x}{a}$. Therefore, the integration yields $\frac{1}{v} = \frac{m}{cg} t + C$...

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