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You are given the following differential equation with the initial condition, $v(t=0) = 0$, $c \frac{dv}{dt} + \frac{1}{2} m \frac{dv^2}{dt} = mg$. Multiply both sides by dv , $m \frac{dv}{dt} + \frac{1}{2} m \frac{dv^2}{dt} = mg \frac{dv}{dt}$. Define $a = \frac{mg}{c}$, $m \frac{dv}{dt} + \frac{1}{2} m \frac{dv^2}{dt} = a \frac{dv}{dt}$. Integrate separation of variables, $\int dv \frac{c}{a - 2v^2} = \int dt$. 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 $\frac{1}{2} v^2 = \frac{c}{m} t$...

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