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following differential equation with the initial condition, $v(t = 0) = 0$, $v^2 \text{ m c g dt}$

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You are given the following differential equation with the initial condition, $v(t = 0) = 0$, $c \frac{dv}{dt} + \frac{1}{2} m \frac{dv^2}{dt} = mg - c \frac{dv}{dt}$. Multiply both sides by dv to get $m \frac{dv}{dt} + \frac{1}{2} m \frac{dv^2}{dt} = mg - c \frac{dv}{dt}$. Define $a = \frac{mg}{c}$ and $b = \frac{c}{m}$. Integrate separation of variables, $\int \frac{dv}{a - bv^2} = \int \frac{1}{a} \frac{1}{1 - \frac{b}{a}v^2} dv$. A table of integrals can be consulted to find that $\int \frac{1}{1 - u^2} du = \frac{1}{2} \ln \left| \frac{1+u}{1-u} \right| + C$. Therefore, the integration yields $\frac{1}{2} \ln \left| \frac{1 + \frac{b}{a}v}{1 - \frac{b}{a}v} \right| = \frac{c}{mg} (t - t_0) + C$...

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