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

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