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CHAPTER 1 1.1 You are given the following differential equation with the initial condition, $v(t = 0) = 0$, $v^2 m c g dt$

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

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