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

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