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

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