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

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