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

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