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

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