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

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