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

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