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You are given the following differential equation with the initial condition,  $v(t=0) = 0$ ,  $c \frac{dv}{dt} + g v^2 = dt$   $m$  Multiply both sides  $m \frac{dv}{dt} + m g v^2 = c \frac{d}{dt} c d$  Define  $a = \frac{m g}{c^2}$   $m \frac{dv}{dt} + a^2 v^2 = c d$  Integrate separation of variables,  $\frac{dv}{c d} + \frac{a^2}{c^2} v^2 = \frac{1}{c} \frac{d}{dt} A$  table of integrals can be consulted to find that  $\int \frac{dx}{x^2 + a^2} = \frac{1}{a} \tan^{-1} \frac{x}{a}$  Therefore, the integration yields  $\frac{1}{c} \ln |v| + \dots$

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