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initial condition,  $v(t=0) = 0$ ,  $v^2 = m c g dt$

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

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