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following differential equation with the  
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equation with the initial condition,  $v(t=0) = 0$ ,  $c \frac{dv}{dt} = g - \frac{c}{m} v^2$ . Multiply both sides by  $\frac{m}{c}$  to get  $\frac{dv}{dt} = \frac{mg}{c} - v^2$ . Define  $a = \frac{mg}{c}$  to get  $\frac{dv}{dt} = a - v^2$ . Integrate separation of variables,  $\int \frac{dv}{a - v^2} = \int \frac{1}{dt}$ . 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  $\frac{1}{2a} \ln \left| \frac{a+v}{a-v} \right| = t + C$  ...

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