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differential equation
with the initial

condition, $v(t=0) = 0$, c
 $\frac{dv}{dt} = g - \frac{c}{m}v^2$

Multiply both sides m
 $\frac{dv}{dt} = \frac{mg}{m} - \frac{c}{m}v^2$

Define $a = \frac{mg}{m} - \frac{c}{m}v^2$
 $a^2 = \frac{mg}{m} - \frac{c}{m}v^2$ Integrate
separation of

variables, $\frac{dv}{cd} = \frac{a}{2} \frac{v}{m}$
 $\frac{dv}{dt} = \frac{a}{2} \frac{v}{m}$ A table of

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integrals can be
consulted to find that
 $\int \frac{1}{1 + \tanh^2 x} dx = \frac{1}{2} \ln \frac{1 + \tanh x}{1 - \tanh x} + C$
Therefore, the
integration yields $\frac{1}{2} \ln \frac{1 + \tanh x}{1 - \tanh x} + C$

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following differential
equation with the

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initial condition, $v(t=0) = 0$, $v^2 = \frac{2}{c} \int_0^v g dt$. Multiply both sides by m/c . $gv^2 = \frac{2}{c} \int_0^v c m dv$.

Define $a = mg/c$.

$a v^2 = \frac{2}{c} \int_0^v c m dv$.

Integrate by separation of variables, $\int_0^v a v^2 dv = \frac{2}{c} \int_0^t c m dt$.

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