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

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