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1 CHAPTER 1 1.1 You

are given the following
differential equation
with the initial

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

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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 $m dv = m g dt - \frac{c}{m} v^2 dt$ Define $a = \frac{mg}{c}$
 $\frac{dv}{a - \frac{c}{m} v^2} = dt$ Integrate separation of variables, $\int \frac{dv}{a - \frac{c}{m} v^2} = \int dt$ 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 $\frac{1}{2a} \ln \left| \frac{v-a}{v+a} \right| = t + C$

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