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Steven C. Chapra Tufts University . 1
CHAPTER 1 1.1 You are given the
following differential equation with the
initial condition, $v(t = 0) = 0$, v^2 m c g dt

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Chapra Tufts University CHAPTER 1 1.1

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

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