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Steven C. Chapra

Tufts University

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You are given

the following

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equation with
the initial
condition, $v(t=0) = 0$, $c \frac{dv}{dt} = mg - \frac{1}{2} c v^2$. Multiply both sides $m \frac{dv}{dt} = g v^2 - \frac{c}{2} v^2$. Define $a = mg - \frac{c}{2} v^2$. Integrate separation of variables, $\int \frac{dv}{a - \frac{c}{2} v^2} = \int \frac{dt}{m}$. A

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integrals can be
consulted to

find that $\int \frac{dx}{x^2}$

$= -\frac{1}{x} + C$

Therefore, the
integration

yields $\frac{1}{v} + C$

$\frac{1}{\tanh^{-1} x} + C$

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1.1 You are given the following differential equation with the initial condition, $v(t=0) = 0$, $v^2 m c g$
 $\frac{dv}{dt} = ?d$.

Multiply both sides by m/cd .
 $gv^2 c m dt dv c$
 $m dd = ?$. Define

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$a = mg/cd \cdot a^2v^2$

$dt \cdot dv \cdot c \cdot m \cdot d = ?$

Integrate by
separation of

variables, $dt \cdot m$

$c \cdot a \cdot v \cdot ? \cdot dv = ? \cdot d^2$

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