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1.1 You are given the following differential equation with the initial condition, $v(t=0) = 0$, $v^2 m c g dt$
 $dv = -d$. Multiply both sides by m/cd . $gv^2 c m dt dv c m dd = -$. Define $a = mg /cd$. $a^2v^2 dt dv c m$. $d = -$. Integrate by separation of variables, $dt m c a v \int dv = \int d 2$
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Methods With MATLAB for

Engineers and Scientists Steven C.
Chapra Tufts University CHAPTER 1

1.1 You are given the following
differential equation with the initial
condition, $v(t=0) = 0$, $c \frac{dv}{dt} = mg - \frac{1}{2} \rho C_d A v^2$
Multiply both sides $m \frac{dv}{dt} = m g - \frac{1}{2} \rho C_d A v^2$
 $\frac{dv}{dt} = \frac{m g}{m} - \frac{1}{2} \rho C_d \frac{A}{m} v^2$
Define $a = \frac{m g}{m}$ $c = \frac{1}{2} \rho C_d \frac{A}{m}$
 $\frac{dv}{dt} = a - c v^2$ Integrate separation of

variables, $\frac{dv}{a - c v^2} = dt$ A table
of integrals can be consulted to find
that $\int \frac{dx}{a^2 - x^2} = \frac{1}{2a} \tanh^{-1} \frac{x}{a}$ Therefore,
the integration yields $\frac{1}{2c} \ln \left| \frac{a + cv}{a - cv} \right| = t$

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to solve problems in engineering
and science. As such, the methods
are motivated by problems rather
than by mathematics. That said,
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