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Numerical 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, $v(t=0) = 0$,
 $c \frac{dv}{dt} + \frac{1}{2} m \frac{d^2v}{dt^2} = mg - c_d v$
Multiply both sides by 2
 $2c \frac{dv}{dt} + m \frac{d^2v}{dt^2} = 2mg - 2c_d v$
Define $a = \frac{2mg}{m}$
 $2c \frac{dv}{dt} + m \frac{d^2v}{dt^2} = a - c_d v$
Integrate separation of
variables, $\int \frac{dv}{a - c_d v} = \int \frac{2c}{m} dt$
A table of
integrals can be consulted to find that
 $\int \frac{dx}{a - bx} = -\frac{1}{b} \ln|a - bx| + C$
Therefore, the
integration yields $v = \frac{a}{c_d} (1 - e^{-\frac{c_d}{2c} t})$...

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approximation (as opposed to symbolic

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manipulations) for the problems of mathematical analysis (as distinguished from discrete mathematics). Numerical analysis naturally finds application in all fields of engineering and the physical sciences, but in the 21st century also the life sciences, social sciences, medicine, business and ...

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