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University CHAPTER 1 1.1 You are given

the following differential equation with

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the initial condition, $v(t=0) = 0$, $c \frac{dv}{dt} = mg - \frac{1}{2} \rho v^2 c_d$
Multiply both sides $m \frac{dv}{dt} = mg - \frac{1}{2} \rho v^2 c_d$
Define $a = \frac{mg}{c_d} - \frac{1}{2} \rho v^2$
Integrate separation of variables, $\frac{dv}{a} = \frac{c_d}{m} dt$
 $\int \frac{dv}{a} = \int \frac{c_d}{m} dt$
A table of integrals can be consulted to find that $\int \frac{dx}{x^2 + a^2} = \frac{1}{a} \tan^{-1} \frac{x}{a} + C$
Therefore, the integration ...

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used to compute the numerical solutions of ordinary differential equations of the first order, such as Euler and Range-Kuta methods.

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```
function p=newtonPoly(a,xData,x) %  
Returns value of Newton's polynomial at  
x. %USAGE:p=newtonPoly(a,xData,x) %  
a = coefficient array of the polynomial; %  
must be computed first by newtonCoeff.  
% xData = x-coordinates of data points. n  
= length(xData); p = a(n); for k=1:n-1; p =  
a(n-k) + (x - xData(n-k))*p; end.
```

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```
syms x y [sol_x, sol_y] = vpasolve ([x*sin  
(10*x) == y^3, y^2 == exp (-2*x/3)],
```


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*Solve equations numerically - MATLAB
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Solutions Manual to accompany Applied
Numerical Methods With MATLAB for
Engineers and Scientists Steven C.

Chapra Tufts University CHAPTER 11.1

You are given the following differential
equation with the initial condition, $v(t=0)$
 $= 0$, $cdv = g \int d v^2 dt$ Multiply both sides
by m/c $dm dv = g \int v^2 c d dt$ Define a
 $= mg / c dm dv = a^2 \int v^2 c d dt$ Integrate by
separation of variables, $dv/c d v^2 = ?$
 $m dt$ A table of integrals can be consulted
to find that $\int a^2 dx x^1 = \dots$

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The authors begin by introducing the solution of nonlinear equations using several standard approaches, including

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methods of successive substitution and linear interpolation; the Wegstein method, the Newton-Raphson method; the Eigenvalue method; and synthetic division algorithms.

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