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CHAPTER 1 1.1
You are given
the following
differential

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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 $m \frac{dv}{dt} =$

$mg - \frac{1}{2} \rho v^2 c_d$ $\frac{dv}{dt} =$

$\frac{d}{dt} \left(\frac{1}{2} m v^2 + \frac{c_d \rho}{6} v^3 \right) =$

mgv Define a $\frac{1}{2} m v^2 + \frac{c_d \rho}{6} v^3 =$

$\frac{1}{2} m v^2 + \frac{c_d \rho}{6} v^3 =$

$\frac{1}{2} m v^2 + \frac{c_d \rho}{6} v^3 =$

$\frac{1}{2} m v^2 + \frac{c_d \rho}{6} v^3 =$

$\frac{1}{2} m v^2 + \frac{c_d \rho}{6} v^3 =$

table of

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integrals can be
consulted to
find that $\int \frac{dx}{x^2 \tanh^2 a x}$
Therefore, the
integration ...

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In Chapter Six,

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we study some
methods, used to
compute the
numerical
solutions of
ordinary
differential
equations of the
first order,
such as Euler
and Runge-Kutta
methods.

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```
function p=newton  
Poly(a,xData,x)  
% Returns value  
of Newton's
```


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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);

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```
for k=1:n-1; p =  
a(n-k) + (x -  
xData(n-k))*p;  
end.
```

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Command When
solving a system
of equations,
use multiple
output arguments
to assign the
solutions
directly to
output
variables. The

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order in which
the solver
returns the
solutions

follows the
order in which
you specify the
variables. 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
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are given the
following

differential

equation with

the initial

condition, $v(t =$

$0) = 0, c dv = g ?$

$d v^2 dt m$ Multiply

both sides by

$m/c dm dv m = g ?$

$v^2 c d dt c$

d Define $a = mg /$

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$\frac{dv}{dt} = a - kv^2$
Integrate by separation of variables,
 $\int \frac{dv}{a - kv^2} = \int \frac{dt}{t}$
A table of integrals can be consulted to find
that $\int \frac{dx}{a^2 - x^2} = \frac{1}{2a} \ln \left| \frac{a+x}{a-x} \right| + C$...

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MATLAB To Write

An Algorithm

Using Any

Numerical Method

(e.g., The

Newton-Raphson

Method) To

Calculate The

Steady State

Values. Compare

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You Should Use

Appropriate

Stopping

Criteria For

Iteration. For

Example, You Can

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To Stop

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