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

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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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in the following table.

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View MATLAB Command When solving a system of equations, use multiple output arguments to assign the solutions directly to output variables. The 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)], [x,y])
```

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Steven C. ChapraTufts University
CHAPTER 11.1 You are given the following differential equation with the initial condition, $v(t = 0) = 0$, $cdv = g \int dt$
 $v^2 dt m$ Multiply both sides by $m/c dm dv = g \int dt$
 $v^2 c \frac{d}{dt} c \frac{d}{dm} dv = a^2 \int v^2 c \frac{d}{dt}$
Integrate by separation of variables, $dvcd? a^2 \int v^2 = ? m dt$ A table of integrals can be consulted to find that $a^2 dx x^1 = \dots$

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For Example, You Can Force The Loop To Stop

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