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the initial condition, $v(t=0) = 0$, $c \frac{dv}{dt} = g - \frac{c}{m} v^2$
Multiply both sides $m \frac{dv}{dt} = m g - \frac{c}{m} v^2$
Define $a = \frac{m g}{c}$, $\frac{dv}{a - v^2} = \frac{c}{m} dt$
Integrate separation of variables, $\int \frac{dv}{a - v^2} = \int \frac{c}{m} dt$
A table of integrals can be consulted to find that $\int \frac{dx}{x^2 - a^2} = \frac{1}{2a} \ln \left| \frac{x+a}{x-a} \right| + C$
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.
```

*NUMERICAL METHODS IN
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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)],
```


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Numerical Methods With MATLAB for
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Chapra Tufts University CHAPTER 11.1

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

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