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

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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])`

Solve equations numerically - MATLAB vpasolve

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 $m/c dm$ $dv m = g \int v^2 c d dt c d$ Define $a = mg / c dm$ $dv = a^2 \int v^2 c d dt$ Integrate by separation of variables, $dv cd^2 a^2 \int v^2 = \int m dt$ A table of integrals can be consulted to find that $a^2 dx x^1 = \dots$

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