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

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