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```
function p=newtonPoly(a,xData,x) % Returns value of
Newton's polynomial at x. %U
SAGE: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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```
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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CHAPTER 11.1 You are given

the following differential

equation with the initial

condition, $v(t = 0) = 0$, $c \frac{dv}{dt} =$

$g - d v^2$ Multiply both

sides by m/c $\frac{dv}{dt} = g - v^2 c$

Define $a = mg / c$ $\frac{dv}{dt} = a - v^2 c$

Integrate

by separation of

variables, $\int \frac{dv}{a - v^2 c} = \int dt$

A table of integrals

can be consulted to find

that $\int \frac{dx}{a^2 - x^2} = \dots$

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