

## Numerical Methods With Matlab Solutions

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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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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`

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CHAPTER 11.1 You are given the following differential equation with the initial condition,  $v(t = 0) = 0$ ,  $cdv = g - v^2$  dt. Multiply both sides by  $m/c$   $dv = g - v^2$  dt. Define  $a = mg / c$   $dv = a - v^2$  dt. Integrate by separation of variables,  $dv / (a - v^2) = dt$ . A table of integrals can be consulted to find that  $\int \frac{1}{a^2 - x^2} dx = \frac{1}{2a} \ln \left| \frac{a+x}{a-x} \right| + C$  ...

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