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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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$([x \sin(10x) == y^3, y^2 == \exp(-2x/3)], [x, y])$

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

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objective of numerical methods is to obtain approximate solutions to problems that are not obtainable by other means.

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the underlying principle of each algorithm.

## APPLIED NUMERICAL METHODS USING MATLAB

The authors begin by introducing the solution of nonlinear equations using several standard approaches, including methods of successive substitution and linear interpolation; the Wegstein method, the Newton-Raphson method; the Eigenvalue method; and synthetic division algorithms.

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