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**MATLAB for Engineers and
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are given the following differential
equation with the initial condition,
 $v(t=0) = 0$, $c \frac{dv}{dt} + g v^2 = m$ Multiply
both sides $m \frac{dv}{m} = m g v^2 - c \frac{d}{dt} c \frac{d}$
Define $a = \frac{mg}{c}$ $\frac{dv}{a - v^2} = dt$

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Integrate separation of variables,
 $dv/cd a 2 v 2 m dt$ A table of
integrals can be consulted to find
that $2 dx x 1 \tanh 2 a a$ Therefore,
the integration yields $1 v c \tanh \dots$

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`S = vpasolve (eqn,var)`

numerically solves the equation
eqn for the variable var. If you do
not specify var , vpasolve solves

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for the default variable determined by symvar. For example, vpasolve (x + 1 == 2, x) numerically solves the equation $x + 1 = 2$ for x. example.

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```
function p = newtonPoly(a, xData, x)
% Returns value of Newton's
polynomial at x. %USAGE: p = newt
onPoly(a, xData, x) % a =
coefficient array of the polynomial;
% must be computed first by
newtonCoeff. % xData = x-
coordinates of data points. n =
```

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```
length(xData); p = a(n);  
for k=1:n-1; p = a(n-k) + (x -  
xData(n-k))*p; end.
```

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