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 $\frac{dv}{c-dv^2} = \frac{g}{m} dt$ Integrate separation of variables, $\frac{dv}{c-dv^2} = \frac{g}{m} dt$

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$\int \frac{1}{1+x^2} dx = \arctan x + C$
A table of integrals can be consulted to find that $\int \frac{1}{1+x^2} dx = \arctan x + C$. 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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View MATLAB Command When solving a system of 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`

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$(-2*x/3)], [x,y]$

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Solutions Manual to accompany Applied Numerical Methods With MATLAB for Engineers and Scientists Steven C. Chapra Tufts University

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

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The authors begin by introducing the solution of nonlinear equations using several standard approaches, including methods of

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successive substitution and linear interpolation; the Wegstein method, the Newton-Raphson method; the Eigenvalue method; and synthetic division algorithms.

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