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for Engineers and Scientists Steven C. Chapra Tufts University CHAPTER 1 1.1 You are given the following differential equation with the initial condition, v(t 0) 0, c dv g d v2 dt m Multiply both sides m dv m g v2 c d dt c d Define a mg c d m dv a2 v2 c d dt 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 ...

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functionp=newtonPoly(a,xData,x) % Returns value of Newton’s polynomial at x. %USA GE:p=newtonPoly(a,xD ata,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); fork=1:n-1; p = a(n-k) + (x - xData(n-k))*p; end.

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Construct the MATLAB function Divide_Averag e(a,x0,tol) to approximate the square root of with initial approximation with some provided relative tolerance that

is the approximation terminated while. The code is written as below: % construct a function with name of Divide_Average. function Divide_Averag e(a,x0,tol) clc % Now apply conditional statement. if a < 0

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The command ‘input’ enables the user to input some data via

the keyboard. For example, >>x = input('Enter x: ') Enter x: 1/3 x = 0.3333. Note that the fraction 1/3 is a nonterminating decimal number, but only four digits after the decimal point are displayed as the result of executing the above command.

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

x. example.

Solve equations numerically - MATLAB vpasolve

Solutions manual for applied numerical methods with matlab for engineers and scientists 2nd edition by steven chapra. 5. 5 2.9 >> t = 10:10:60; >> c = [3.4 2.6 1.6 1.3 1.0 0.5]; >> tf = 0:70; >> cf = 4.84*exp (-0.034*tf); >> semilogy

(t,c,'s',tf,cf,'--') The result is a straight line.

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