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contain the first- and second-order derivatives, create two symbolic functions,  $Du = \text{diff}(u,x)$  and  $D2u = \text{diff}(u,x,2)$  , to specify the initial conditions.

Solve Differential Equation - MATLAB & Simulink

A First Course in Differential Equations, 3rd ed. Springer-Verlag, NY (2015) J. David Logan, University of Nebraska SOLUTIONS TO ODD-NUMBERED EXERCISES This supplement contains solutions, partial solutions, or hints to most of the odd-numbered exercises in the text. Many of the plots required in

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Ordinary Differential Equations Calculator - Symbolab

The generalization to third-order and higher equations is straightforward We will occasionally use the following abbreviations for the first- and second- order derivatives  $\frac{dy}{dt}$ ,  $\frac{d^2y}{dt^2}$  MATLAB provides the `dsolve` function for solving ordinary differential equations.

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Differential Equations Matlab Help, Matlab Assignment ...

Equations L.F. Shampine<sup>1</sup> and S. Thompson<sup>2</sup> 1  
Mathematics Department, Southern Methodist  
... topics are discussed in concrete terms  
using the programming languages Matlab and  
Fortran 90/95, so a familiarity with one or  
both languages would be helpful. ... The jump  
in the third derivative at  $t = 2$  is not  
noticeable in the plot of  $y(t)$ . -1 -0.5 0 0  
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