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The generalization to third-order and higher equations is straightforward We will OCCasio'nally use the following abbreviations for the first- and second- ~rder derivatites  $dy$ .  $d^2y$   $Y = dt$   $y = dt^2$  MATLAB provides the dsolve function for solving ordinary differential equations.

Differential Equations Matlab Help, Matlab Assignment ...  
Equations L.F. Shampine1 and S. Thompson2 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 ...