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The generalization to third-order and higher equations is straightforward We

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will normally 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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Equations L.F. Shampine<sup>1</sup> and S. Thompson<sup>2</sup>  
<sup>1</sup> 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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