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Specify the mass matrix using the Mass option of odeset. ode45 is a versatile ODE solver and is the first solver you should try for most problems. However, if the problem is stiff or requires high accuracy, then there are other ODE solvers that might be better suited to the problem. See Choose an ODE Solver for more information.

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The matlab function ode45 will be used. The important thing to remember is that ode45 can only solve a 1st order ODE. Therefore to solve a higher order ODE, the ODE has to be 1st converted to a set of 1st order ODE's. This is possible since an n order ODE can be converted to a set of n 1st order ODE's.

## Using Matlab ode45 to solve differential equations

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