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The `solve` command is a predefined function in MATLAB. The code for solving the above equations using the `solve` command is as shown. Open a new M-File and type the following code. % To solve the linear equations using the solve command

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To see this, repeat the above for a spacing of 0.01 instead of 0.05. 32. INTRODUCTION TO MATLAB 33 Solving several equations simultaneously EDU» eqn1='x^2+y^2=12' eqn1 = x^2+y^2=12 EDU» eqn2='x*y=4' eqn2 = x*y=4 In the above we have defined two equations which we will now solve for the two unknowns, x and y.

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To motivate the ideas we first consider the solution of a model equation of the form $a(x,y)y'' + b(x,y)y' + c(x,y)y = g(x,y)$, say with Dirichlet boundary conditions in a rectangular domain. To obtain a numerical solution to this problem the first step is to choose an appropriate method and discretization.

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