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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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 $p = 'x + 2*y = 6';$   $q = 'x - y = 0';$   $[x,y] = \text{solve}(p,q)$  Subs 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»  
 $\text{eqn1} = 'x^2 + y^2 = 12'$   $\text{eqn1} = x^2 + y^2 = 12$  EDU»  $\text{eqn2} = 'x*y = 4'$   $\text{eqn2} = x*y = 4$  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  $a(x,y)y'' + b(x,y)y' + c(x,y)y + e(x,y) = g(x,y)$ , 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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