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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

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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  $p = x + 2y = 6$ ;  $q = x - y = 0$ ; `[x,y] = solve(p,q)`

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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



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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

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$a(x,y)u_{xx} + b(x,y)u_{yy} + c(x,y)u_x + e(x,y)u_y + f(x,y)u = g(x,y)$ , 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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