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M-File and type the following code. % To solve the linear equations using the solve command p = 'x + 2\*y = 6'; q = 'x - y = 0'; [x,y] = 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»  
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

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a model equation of the form  $a(x,y)y_{xx}+b(x,y)y_{yy}+c(x,y)y_x+e(x,y)y_y+ f(x,y)y=g(x,y)$ , 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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