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To motivate the ideas we first consider the solution of a model equation of the form $a(x,y)xx + b(x,y)yy + c(x,y)yx + e(x,y)yy + f(x,y)y = g(x,y)$, 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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