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The growth in computing power means that problems that were hard to solve earlier can now be tackled using numerical techniques. These are algorithms that seek to find numerical approximations to mathematical problems rather than use symbolic manipulation i.e. fit a formula. Symbolic manipulation is often very hard and may not always be tractable.

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In such cases, a numerical approach gives us a good approximate solution. The General Initial Value Problem. We are trying to solve problems that are presented in the following way: `dy/dx=f(x,y)`; and `y(a)` (the inital value) is known, where `f(x,y)` is some function of the variables `x`, and `y` that are involved in the problem.

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Numerical analysis - Wikipedia

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