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primarily focused on the theory of linear partial differential equations such as the heat equation, the wave equation and the Laplace equation, including separation of variables, Fourier series and transforms, Laplace transforms, and Green's functions. Some discussion of non-linear

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The general idea of solving the equation in this method is to use an appropriate variable change that can transform the given partial differential equation into an ordinary differential equation. We then provide a general symbolic form for the solutions and determine the solution of the equation.

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