



I'm not robot



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A partial differential equation (or briefly a pde) is a mathematical equation that involves two or more independent variables, an unknown function (dependent on those variables), and partial derivatives of the unknown function with respect to those variables. Prerequisites: basic ODEs, calculus (particularly multivariable). Let us recall that a partial differential equation or pde is an equation containing the partial derivatives with respect to several independent variables. Chapter 9: Partial Differential Equations. A pde is said to be linear if the dependent variable and its derivatives appear at most to the first power and in no product. In this chapter we are going to take a very brief look at one of the more common methods for solving simple partial differential equations. In this video, I introduce pdes and the various ways of classifying them. The method we will be looking at is that of separation of variables. We need to make it very clear before we even start this chapter that we are going to be solving pdes will be our main application of Fourier series. Ask in the comments below!