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nates?= x?ctand ?= t.
Then the PDE for N=

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Thus the solution of the
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cosx). To verify the
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chain rule and get ux =
?sinxf0 (y+ cosx) and
uy = f0 (y+cosx). Thus
ux + sinxuy = 0, as
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functions of one independent variable and the derivatives of those functions. The term ordinary is used in contrast with the term partial differential equation which may be with respect to more than one independent variable.

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On this page, we'll examine using the Fourier Transform to solve partial differential equations (known as PDEs), which are essentially multi-variable functions within differential equations of two or more variables. As an example of solving Partial Differential

Equations, we will take a look at the classic problem of heat flow on an infinite rod.

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