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From X#(1) = −X(1), we find that −c2µ2sinµ + c2µcosµ = −c2µcosµ − c2sinµ. Hence µ is a solution of the equation −µ2sinµ +µcosµ = −µcosµ −sinµ ⇒ 2µcosµ =(µ2−1)sinµ Note that µ = ±1 s not a solution and cosµ = 0 is not a possibility, since this would imply sinµ = 0 and the twoequations have no common solutions.

Instructor’s Solutions Manual PARTIAL DIFFERENTIAL EQUATIONS

Thus the solution of the partial differential equation is u(x,y)=f(y+ cosx). To verify the solution, we use the chain rule and get ux = −sinxf0 (y+ cosx) and uy = f0 (y+cosx). Thus ux + sinxuy = 0, as desired.

Students Solutions Manual PARTIAL DIFFERENTIAL EQUATIONS

About the Author Walter A. Strauss and Julie L. Levandosky are the authors of Student Solutions Manual to accompany Partial Differential Equations: An Introduction, 2e, published by Wiley.

Student Solutions Manual to accompany Partial Differential ...

(a) The partial dierential equation is really an autonomous rst-order ordi nary dieren- tial equation in t, with x as a parameter. Solving this ordinary dierential equation by standard methods, [20,23], the solution to the initial value problem is u(t;x) = f (x) tf (x) + 1.

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Solutions to Partial Differential Equations: An ...

The aim of this is to introduce and motivate partial di erential equations (PDE). The section also places the scope of studies in APM346 within the vast universe of mathematics. 1.1.1 What is a PDE? A partial di erential equation (PDE) is an equation involving partial deriva-tives. This is not so informative so let’s break it down a bit.

Partial Differential Equations

x3=2sinx x1=2cosxC 3 4 x1=2sinxCx1=2cosx 1 2 x1=2sinxCx3=2sinx 1 4 x1=2sinx Cc2. x3=2cosxCx1=2sinxC 3 4 x1=2cosx x1=2sinx 1 2 x1=2cosxCx3=2cosx 1 4 x1=2cosx C4xC x2. 1 4 .4xC8/D 4x3C8x2C 3x 2. 1.2.4. (a) If y0D xex, thenyD xexC R exdxCcD .1 x/exCc, and y.0/D 1) 1D 1Cc, so cD 0and yD .1 x/ex.

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τ= t. Then the PDE for N= N(ξ,τ) is Nτ= −r √ N. Separate variables and integrate to get 2 √ N= −rτ+Φ(ξ).

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