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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.

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C or y+ cosx = C. 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.

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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.

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we obtain the coupled system of partial di erential equations @ @t ˚2 + r(˚2rS)=0 @ @t rS+ (rSr)rS= 1 m r (−2=2m)r2˚ ˚ + rV : This is the Madelung representation of the Schr odinger equation. The term (−2=2m)r2˚ ˚ of the right-hand side of the last equation is known as the Bohm potential in the theory of hidden variables. Problem 10. Consider the Schr odinger equation H^ = E of a particle on the torus.

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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. (b) If y0D xsinx2, then y D 1 2 cosx2C c; y r ˇ 2 D 1) 1 D 0C c, so c D 1and yD 1 1 2 cosx2.

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Solutions to exercises from Chapter 2 of Lawrence C. Evans' book 'Partial Di erential Equations' Sumeyy e Yilmaz Bergische Universit at Wuppertal Wuppertal, Germany, 42119 February 21, 2016 1 Write down an explicit formula for a function usolving the initial value problem u t+ bDu+ cu= 0 in Rn (0;1) u= gon Rnf t= 0g)

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