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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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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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With c = L =1, we have u(x; t) = sin2 x cos2 t) u(1=2;t) = sin cos2 t = 0 for all t>0: Full file at http://testbank360.eu/solution-manual-partial-differential-equations-2nd-edition-asmar. 10Chapter 1 A Preview of Applications and Techniques. (b) One way for x =1=3 not to move is to have u(x; t) = sin3 x cos3 t .

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x+ct x−ct. ψ(s)ds. (8) This is the solution formula for the initial-value problem, due to d’Alembert in 1746. Assumingφto have a continuous second derivative (writtenφ∈C2) andψto have a continuous first derivative (ψ∈C1), we see from (8) thatuitself has continuous second partial derivatives inxandt.

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The function being graphed is the solution (2) with c = L = 1: u (x, t) = sin πx cos πt. √ In the second frame, t = 1/4, and so u (x, t) = sin πx cos π/4 = 22 sin πx. The

maximum of this function (for $0 < x < \pi$ is attained at $x = 1/2$ and is equal to √ 2 , which is a value greater than 1/2. 2 13.

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Nakhl´e H. Asmar Department of Mathematics University of Missouri–Columbia Columbia, Missouri 65211 U. S. A. e-mail: asmarn@missouri.edu Telephone: (573) 882-0634 (Office) 1 Education Ph.D., University of Washington, March 1986. Title of Dissertation “The conjugate function on locally compact abelian groups.” Advisor, Professor Edwin Hewitt.

Nakhl´e H. Asmar - University of Missouri
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