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Thus the solution of the partial di ﬀ erential equation is u(x,y)=f(y+ cosx). To verify the

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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. Assuming ϕ to have a continuous second derivative (written $\phi \in C2$) and ψ to have a continuous first derivative ($\psi \in C1$), we see from (8) thatuitself has continuous second partial derivatives inxandt.

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The function being graphed is the solution

(2) with $c = L = 1$: $u(x, t) = \sin \pi x \cos \pi t$. √ In the second frame, $t = 1/4$, and so $u(x, t) = \sin \pi x \cos \pi/4 = 22 \sin \pi x$. 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.

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