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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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The function being graphed is the solution (2) with c = L = 1: u (x, t) = sin ?x cos ?t. ? In the second frame, t = 1/4, and so u (x, t) = sin ?x cos ?/4 = 22 sin ?x. The maximum of this function (for 0 < x < ? 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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Thus the solution of the partial di?erential 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 ?nd 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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Partial Differential Equations And Boundary Value Problems ...

x+ct x?ct. ?(s)ds. (8) This is the solution formula for the initial-value problem, due to d'Alembert in 1746. Assuming?to have a continuous second derivative (written??C2) and?to have a continuous ?rst derivative (??C1), we see from (8) thatuitself has continuous second partial derivatives inxandt.

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