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From $X''(1) = -X(1)$, we find that $-c_2\mu^2\sin\mu + c_2\mu\cos\mu = -c_2\mu\cos\mu - c_2\sin\mu$. Hence μ is a solution of the equation $-\mu^2\sin\mu + \mu\cos\mu = -\mu\cos\mu - \sin\mu$ $2\mu\cos\mu = (\mu^2 - 1)\sin\mu$ Note that $\mu = \pm 1$ is not a solution and $\cos\mu = 0$ is not a possibility, since this would imply $\sin\mu = 0$ and the two equations have no common solutions.

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Thus the solution of the partial differential equation is $u(x,y)=f(y+\cos x)$. To verify the solution, we use the chain rule and get $u_x = -\sin x f'(y+\cos x)$ and $u_y = f'(y+\cos x)$. Thus $u_x + \sin x u_y = 0$, as desired.

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With $c = L = 1$, we have $u(x; t) = \sin^2 x \cos^2 t$ $u(1=2;t) = \sin \cos^2 t = 0$ for all $t > 0$: Full file at
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10Chapter 1 A Preview of Applications and Techniques. (b) One way for $x = 1=3$ not to move
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$x + ct$ $x - ct$. (8) This is the solution formula for the initial-value problem, due to d'Alambert in 1746. Assuming t to have a continuous second derivative (written C^2) and x to have a continuous first derivative (C^1), we see from (8) that u itself has continuous second partial derivatives in x and 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

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the second frame, $t = 1/4$, and so $u(x, t) = \sin x \cos t/4 = 22 \sin x$. 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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