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### Solution Manual Partial Differential Equations

From  $X'(1) = -X(1)$ , we find that  $-c2\mu2\sin\mu + c2\mu\cos\mu = -c2\mu\cos\mu - c2\sin\mu$ . Hence  $\mu$  is a solution of the equation  $-\mu2\sin\mu + \mu\cos\mu = -\mu\cos\mu - \sin\mu \Rightarrow 2\mu\cos\mu = (\mu2 - 1)\sin\mu$  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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$C$  or  $y + \cos x = C$ . 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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## EQUATIONS

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