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Thus the solution of the partial  
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$u(x,y)=f(y+\cos x)$ . 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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$C$  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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From  $X''(1) = -X(1)$ , we find that  $-c^2 \mu^2 \sin \mu + c^2 \mu \cos \mu =$

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$-c_2\mu\cos\mu - c_2\sin\mu$ . Hence  $\mu$  is a solution of the equation  $-\mu^2\sin\mu + \mu\cos\mu = -\mu\cos\mu - \sin\mu \Rightarrow 2\mu\cos\mu = (\mu^2 - 1)\sin\mu$ . 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  $u(x, y) = f(y + T_{yn}, \text{Manual Solution Linear Partial Differential. Equations, Partial Differential Equations - Solution. Manual Ebooks, Tyn Myint U Lokenath Debnath.}$

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## Introduction to Partial Differential Equations

If  $c^2 - 4Dr = 0$  then the roots are equal ( $c = 2D$ ) and the general solution has the form  $u(x) = a e^{cx/2D} + b x e^{cx/2D}$ . If  $c^2 - 4Dr > 0$  then there are two real roots and the general solution is  $u(x) = a e^{\lambda_1 x} + b e^{\lambda_2 x}$ . If  $c^2 - 4Dr < 0$  then

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the roots are complex and the general solution is given by  $u(x) = a e^{cx/2D} \cdot \cos \sqrt{4Dr - c^2} x$ .

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Manual, we use the chain rule and get  $u_x = -\sin x f_0(y + \cos x)$  and  $u_y = f_0(y + \cos x)$ .

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Thus by superposition,  $u(x, t) = \sum_{n=1}^{\infty} L_n P_n \pi x^2 \pi x$  the initial conditions  $u(x, 0) = f(x) = \sum_{n=1}^{\infty} b_n \sin n x$  yields  $b_n = \frac{2}{L} \int_0^L f(x) \sin n x dx$ . As  $t \rightarrow \infty$ ,  $u \rightarrow 0$ , the only equilibrium ...

## Solutions Manual for Applied Partial Differential ...

$x^3 = 2 \sin x$   $x^1 = 2 \cos x$   $C_3 C_4$   
 $x^1 = 2 \sin x$   $C_1 = 2 \cos x$   $1 2$   
 $x^1 = 2 \sin x$   $C_3 = 2 \sin x$   $1 4$   $x^1 = 2 \sin x$   
 $C_2$ .  $x^3 = 2 \cos x$   $C_1 = 2 \sin x$   $C_3 C_4$   
 $x^1 = 2 \cos x$   $x^1 = 2 \sin x$   $1 2$   
 $x^1 = 2 \cos x$   $C_3 = 2 \cos x$   $1 4$   
 $x^1 = 2 \cos x$   $C_4 x C$   $x^2$ .  $1 4$   $.4 x C_8 / D$

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4x3C8x2C 3x 2. 1.2.4. (a) If  $y_0 = D$   
 $xex$ , then  $y_D = xexC R exdxCcD .1$   
 $x/exCc$ , and  $y_0/D = 1) 1D 1Cc$ , so  
 $cD = 0$  and  $y_D = .1 x/ex$ .

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