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Sankara Rao

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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 $-\mu^2\sin\mu + \mu\cos\mu = -\mu\cos\mu - \sin\mu \Rightarrow 2\mu\cos\mu = (\mu^2 - 1)\sin\mu$. 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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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 $u_{xx} = -\cos x f'(y + \cos x) - \sin x f''(y + \cos x)$ and $u_{yy} = f''(y + \cos x)$.

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+ $\sin xuy = 0$, as desired.

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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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Partial differential equation - Wikipedia

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