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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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SOLUTION OF Partial Differential Equations (PDEs)

Problems and Solutions for Partial Differential Equations by Willi-Hans Steeb International School for Scientific Computing at University of Johannesburg, South Africa Yorick Hardy Department of Mathematical Sciences at University of South Africa, South Africa

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