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~~Partial differential equation — Wikipedia~~

Partial Differential Equations Solutions Manual  $C$  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. Students' Solutions Manual PARTIAL DIFFERENTIAL EQUATIONS

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