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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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fundamental and active areas in mathematics, the theory of partial differential equations (PDEs) is essential in the modeling of natural phenomena.

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Linear Partial Differential Equations 5

Find the coupled system of partial differential equations for  $\hat{u} = v = r$ :

Solution 6. First we calculate  $\hat{u} @ t = @ @ t ( ) = @ @ t + @ @ t$ : Inserting the Schrödinger equation and  $i \sim @ @ t = 1 2m + V(x)$  yields  $@ ^ @ t = 1 2im \sim ( ) + 1 2im \sim$ : We set  $R = e (x) + iS$ , where  $R$  and  $S$  are real-valued. Next we separate

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