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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 Equations
 Igor Yanovsky, 2005 12 5.2
 Weak Solutions for
 Quasilinear Equations 5.2.1
 Conservation Laws and Jump
 Conditions Consider shocks
 for an equation $u_t + f(u)_x = 0$,
 (5.3) where f is a smooth
 function of u . If we integrate
 (5.3) with respect to x for a
 $x = a$ to $x = b$, we obtain $\frac{d}{dt} \int_a^b u(x,t) dx + f(u(b,t)) - f(u(a,t)) = 0$.
 1. $\int_a^b u(x,t) dx + f(u(b,t)) - f(u(a,t)) = 0$.
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Numerically Using NDSolve
Eqns $Y X X_{min} X_{max} T$
 $T_{min} T_{max}$ Fortunately
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