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October 12th, 2018 - Find the general solution of the PDE preferably as an explicit function of  $x$   $y$  Solve the Cauchy problem for the PDE with initial condition that  $u(x, y) = x$  on the curve  $y = x^2$  Comment on the domain of influence of this initial curve if appropriate'

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## 'Authors Joe Benson Denis Bashkirov Minsu Kim Helen Li

September 28th, 2018 - Authors Joe Benson Denis Bashkirov Minsu Kim Helen Li Alex Csar Evans PDE Solutions Chapter 2 Joe 1 2 11 Denis 4 6 14 18 Minsu 2 3 15 Helen 5 8 13 17 Alex 10 16 Problem 1 Write down an explicit formula for a function  $u$  solving the initial value problem Solution Let  $y = Ox$  and write  $O = a_{ij}$  Thus  $v(x, u) = Ox \cdot u$

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### 'Baisheng Yan users math msu edu

October 2nd, 2018 - The Cauchy problem is to find a solution  $u$   $x$  such that the hypersurface  $z = u(x)$  in the  $xz$  space passes a prescribed  $n$  1 dimensional manifold  $S$  in  $xz$  space Assume the projection of  $S$  onto the  $x$  space is a smooth  $n$  1 dimensional surface'

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### 'PARTIAL DIFFERENTIAL EQUATIONS Sharif University of

October 11th, 2018 - PARTIAL DIFFERENTIAL EQUATIONS Second Edition An Introduction with Mathematica and MAPLE This page intentionally left blank 1 1 is a PDE of order  $m$  By a solution of the equation 1 1 we mean a function  $u \in C^2$  such that the substitution of  $u$  and its derivatives up to the order  $m$  in 1 1 makes'

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