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A single PDE with just one unknown function is called a scalar equation.Incontrast, a set of m equations with l unknown functions is called a system of m equations. 1.3 Differential operators and the superposition principle A function has to be k times differentiable in order to be a solution of an equation

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### 110 Introduction to Partial Differential Equations

This is a linear partial differential equation of first order for  $\mu$ :  $M_{\mu y} - N_{\mu x} = \mu(N_x - M_y)$ . 5. Two  $C^1$ -functions  $u(x,y)$  and  $v(x,y)$  are said to be functionally dependent if  $\det \begin{pmatrix} \mu_x & \mu_y \\ u_x & u_y \\ v_x & v_y \end{pmatrix} = 0$ , which is a linear partial differential equation of first order for  $u$  if  $v$  is a given  $C^1$ -function. A large class of solutions is given by ...

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