

# Determining Direct or Inverse Variation

Do the data in each table represent a *direct variation* or an *inverse variation*? For each table, write an equation to model the data.

**A**

$x$	$y$
3	-15
4	-20
5	-25

The values of  $y$  seem to vary directly with the values of  $x$ . Check each ratio  $\frac{y}{x}$ .

$$\frac{-15}{3} = -5$$

$$\frac{-20}{4} = -5$$

$$\frac{-25}{5} = -5$$

The ratio  $\frac{y}{x}$  is the same for all data pairs. So this is a direct variation, and  $k = -5$ .

An equation is  $y = -5x$ .

**B**

$x$	$y$
2	9
4	4.5
6	3

The values of  $y$  seem to vary inversely with the values of  $x$ . Check each product  $xy$ .

$$2(9) = 18$$

$$4(4.5) = 18$$

$$6(3) = 18$$

The product  $xy$  is the same for all data pairs. So this is an inverse variation, and  $k = 18$ .

An equation is  $xy = 18$ , or  $y = \frac{18}{x}$ .

# Direct And Inverse Variation Problems Filetype

**Thirumalaisamy P.**  
**Velavancorresponding**



## **Direct And Inverse Variation Problems Filetype:**

**Variation** Addison-Wesley Longman, Incorporated, 1996-08-01      The Method of Fundamental Solutions for Some Direct and Inverse Problems Thomas Henry Reeve, 2013 We propose and investigate applications of the method of fundamental solutions MFS to several parabolic time dependent direct and inverse heat conduction problems IHCP In particular the two dimensional heat conduction problem the backward heat conduction problem BHCP the two dimensional Cauchy problem radially symmetric and axisymmetric BHCPs the radially symmetric IHCP inverse one and two phase linear Stefan problems the inverse Cauchy Stefan problem and the inverse two phase one dimensional nonlinear Stefan problem The MFS is a collocation method therefore it does not require mesh generation or integration over the solution boundary making it suitable for solving inverse problems like the BHCP an ill posed problem We extend the MFS proposed in Johansson and Lesnic 2008 for the direct one dimensional heat equation and Johansson and Lesnic 2009 for the direct one phase one dimensional Stefan problem with source points placed outside the space domain of interest and in time Theoretical properties including linear independence and denseness the placement of source points and numerical investigations are included showing that accurate results can be efficiently obtained with small computational cost Regularization techniques in particular Tikhonov regularization in conjunction with the L curve criterion are used to solve the illconditioned systems generated by this method In Chapters 6 and 8 investigating the linear and nonlinear Stefan problems the MATLAB toolbox lsqnonlin which is designed to minimize a sum of squares is used      *Inverse Problems and Nonlinear Evolution Equations* Alexander L. Sakhnovich, Lev A. Sakhnovich, Inna Ya. Roitberg, 2013-07-31 This book is based on the method of operator identities and related theory of S nodes both developed by Lev Sakhnovich The notion of the transfer matrix function generated by the S node plays an essential role The authors present fundamental solutions of various important systems of differential equations using the transfer matrix function that is either directly in the form of the transfer matrix function or via the representation in this form of the corresponding Darboux matrix when Bäcklund Darboux transformations and explicit solutions are considered The transfer matrix function representation of the fundamental solution yields solution of an inverse problem namely the problem to recover system from its Weyl function Weyl theories of selfadjoint and skew selfadjoint Dirac systems related canonical systems discrete Dirac systems system auxiliary to the N wave equation and a system rationally depending on the spectral parameter are obtained in this way The results on direct and inverse problems are applied in turn to the study of the initial boundary value problems for integrable nonlinear wave equations via inverse spectral transformation method Evolution of the Weyl function and solution of the initial boundary value problem in a semi strip are derived for many important nonlinear equations Some uniqueness and global existence results are also proved in detail using evolution formulas The reading of the book requires only some basic knowledge of linear algebra calculus and operator theory from the standard university courses      **The Null Field Approach in Series Form** , 1985      **The Inverse Problem**

**of the Calculus of Variations for Ordinary Differential Equations** Ian Anderson, Gerard Thompson, 1992 This monograph explores various aspects of the inverse problem of the calculus of variations for systems of ordinary differential equations The main problem centres on determining the existence and degree of generality of Lagrangians whose system of Euler Lagrange equations coincides with a given system of ordinary differential equations The authors rederive the basic necessary and sufficient conditions of Douglas for second order equations and extend them to equations of higher order using methods of the variational bicomplex of Tulczyjew Vinogradov and Tsujishita The authors present an algorithm based upon exterior differential systems techniques for solving the inverse problem for second order equations a number of new examples illustrate the effectiveness of this approach

**Direct and Inverse Sturm-Liouville Problems of Order Four** Amornrat Rattana, 2013

*Inverse Problems for Fractional Diffusion Equations* Durdimurod K. Durdiev, 2025-06-15 This book discusses various inverse problems for the time fractional diffusion equation such as inverse coefficient problems nonlinear problems and inverse problems for determining the right hand sides of equations and initial functions linear problems The study of inverse problems requires a comprehensive investigation of direct problems such as representation formulas a priori estimates and differential properties of the solution This is particularly evident in nonlinear problems where obtaining solvability theorems necessitates careful tracking of the exact dependence of the differential properties of the solution to the direct problem on the smoothness of the coefficients and other problem data Therefore a significant portion of the book is devoted to direct problems such as initial problems Cauchy problems and initial boundary value problems with various boundary conditions

**Bitangential Direct and Inverse Problems for Systems of Integral and Differential Equations** Damir Z. Arov, Harry Dym, 2014-05-14

An essentially self contained treatment ideal for mathematicians physicists or engineers whose research is connected with inverse problems

**Inverse Problems in Differential Equations** G. Anger, 1990-06-30 Elucidates the fundamental mathematical structures of inverse problems analyzing both the information content and the solution of some inverse problems in which the information content of the coefficients and the source term of a given differential equation is not too large In order to be accessible

*Bitangential Direct and Inverse Problems for Systems of Integral and Differential Equations* Damir Z. Arov, 2012 This largely self contained treatment surveys unites and extends some 20 years of research on direct and inverse problems for canonical systems of integral and differential equations and related systems Five basic inverse problems are studied in which the main part of the given data is either a monodromy matrix an input scattering matrix an input impedance matrix a matrix valued spectral function or an asymptotic scattering matrix The corresponding direct problems are also treated The book incorporates introductions to the theory of matrix valued entire functions reproducing kernel Hilbert spaces of vector valued entire functions with special attention to two important spaces introduced by L de Branges the theory of J inner matrix valued functions and their application to bitangential interpolation and extension problems which can be used independently for courses and seminars in analysis or

for self study A number of examples are presented to illustrate the theory

**Multidimensional Inverse Problems for Differential Equations** M. M. Lavrentiev, V. G. Romanov, V. G. Vasiliev, 2006-11-15 *Inverse Source Problems* Victor Isakov, 2014-06-29 A careful exposition of a research field of current interest This includes a brief survey of the subject and an introduction to recent developments and unsolved problems *Multidimensional Inverse Problems for Differential Equations* M. M. Lavrentiev, Vladimir Romanov, V. G. Vasiliev, 2014-09-01 *Total Variation Regularization for Linear Ill-posed Inverse Problems* Wolfgang Stefan, 2008 *Well-posed, Ill-posed, and Intermediate Problems with Applications* Petrov Yuri P., Valery S. Sizikov, 2011-12-22 This book deals with one of the key problems in applied mathematics namely the investigation into and providing for solution stability in solving equations with due allowance for inaccuracies in set initial data parameters and coefficients of a mathematical model for an object under study instrumental function initial conditions etc and also with allowance for miscalculations including roundoff errors Until recently all problems in mathematics physics and engineering were divided into two classes well posed problems and ill posed problems The authors introduce a third class of problems intermediate ones which are problems that change their property of being well or ill posed on equivalent transformations of governing equations and also problems that display the property of being either well or ill posed depending on the type of the functional space used The book is divided into two parts Part one deals with general properties of all three classes of mathematical physical and engineering problems with approaches to solve them Part two deals with several stable models for solving inverse ill posed problems illustrated with numerical examples

**Inverse Scattering Problems and Their Application to Nonlinear Integrable Equations** Pham Loi Vu, 2023 Inverse Scattering Problems and Their Applications to Nonlinear Integrable Equations Second Edition is devoted to inverse scattering problems ISPs for differential equations and their applications to nonlinear evolution equations NLEEs The book is suitable for anyone who has a mathematical background and interest in functional analysis differential equations and equations of mathematical physics This book is intended for a wide community working with ISPs and their applications There is an especially strong traditional community in mathematical physics In this monograph the problems are presented step by step and detailed proofs are given for considered problems to make the topics more accessible for students who are approaching them for the first time New to the Second Edition All new chapter dealing with the Backlund transformations between a common solution of both linear equations in the Lax pair and the solution of the associated IBVP for NLEEs on the half line Updated references and concluding remarks Features Solving the direct and ISP then solving the associated initial value problem IVP or initial boundary value problem IBVP for NLEEs are carried out step by step The unknown boundary values are calculated with the help of the Lax generalized equations then the time dependent scattering data SD are expressed in terms of preassigned initial and boundary conditions Thereby the potential functions are recovered uniquely in terms of the given initial and calculated boundary conditions The unique solvability of the ISP is proved and the SD of the scattering problem is described

completely The considered ISPs are well solved The ISPs are set up appropriately for constructing the Backlund transformations BTs for solutions of associated IBVPs or IVPs for NLEEs The procedure for finding a BT for the IBVP for NLEEs on the half line differs from the one used for obtaining a BT for non linear differential equations defined in the whole space The interrelations between the ISPs and the constructed BTs are established to become new powerful unified transformations UTs for solving IBVPs or IVPs for NLEEs that can be used in different areas of physics and mechanics The application of the UTs is consistent and efficiently embedded in the scheme of the associated ISP Anneaux locaux Henséliens ,1969 *The Inverse Problem in the Calculus of Variations and the Geometry of the Tangent Bundle* ,1990 Inverse Problems in Differential Equations Gottfried Anger,1990

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