

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 $y = \frac{18}{x}$.

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PT Brinkman



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Design News, 1987 **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 **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 **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

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

Total Variation Regularization for Linear Ill-posed Inverse Problems Wolfgang Stefan,2008 **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 accessib

Multidimensional Inverse Problems for Differential Equations M. M. Lavrentiev,V. G. Romanov,V. G. Vasiliev,2006-11-15

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Vasiliev,2014-09-01 **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 **Ill-Posed Problems with A Priori Information** V. V. Vasin,A. L. Ageev,2013-02-18 The Inverse and Ill Posed Problems Series is a series of monographs publishing postgraduate level information on inverse and ill posed problems for an international readership of professional scientists and researchers The series aims to publish works which involve both theory and applications in e g physics medicine geophysics acoustics electrodynamics tomography and ecology **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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