Example 24.
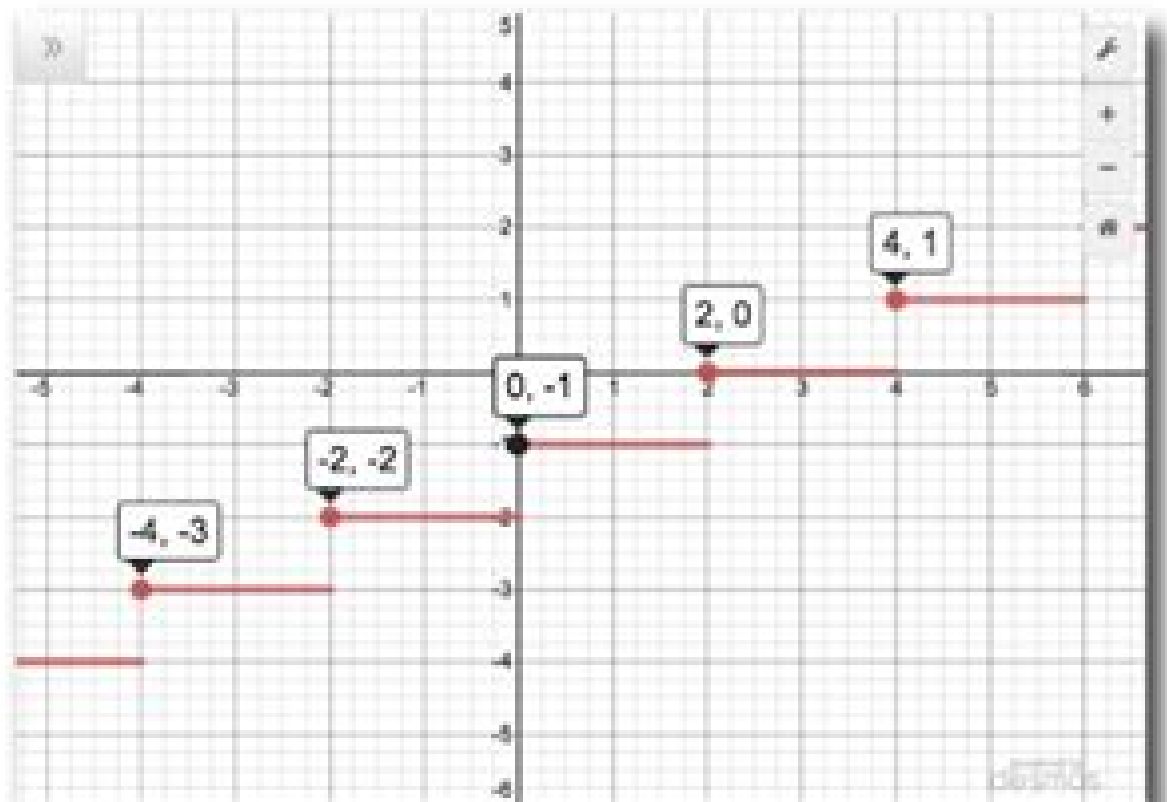
Create a table of *x-y* coordinates and graph the function.

$$y = \lfloor 0.5x \rfloor - 1$$

Solution.

x	y
-4	-3
-2	-2
0	-1
2	0
4	1

Mathematical Methods With Special Functions

Binay Kanti Dutta

Mathematical Methods With Special Functions:

Mathematical Methods with Special Functions B. D. Gupta,1992 *Special Functions of Mathematical (Geo-)Physics* Willi Freeden,Martin Gutting,2013-02-15 Special functions enable us to formulate a scientific problem by reduction such that a new more concrete problem can be attacked within a well structured framework usually in the context of differential equations A good understanding of special functions provides the capacity to recognize the causality between the abstractness of the mathematical concept and both the impact on and cross sectional importance to the scientific reality The special functions to be discussed in this monograph vary greatly depending on the measurement parameters examined gravitation electric and magnetic fields deformation climate observables fluid flow etc and on the respective field characteristic potential field diffusion field wave field The differential equation under consideration determines the type of special functions that are needed in the desired reduction process Each chapter closes with exercises that reflect significant topics mostly in computational applications As a result readers are not only directly confronted with the specific contents of each chapter but also with additional knowledge on mathematical fields of research where special functions are essential to application All in all the book is an equally valuable resource for education in geomathematics and the study of applied and harmonic analysis Students who wish to continue with further studies should consult the literature given as supplements for each topic covered in the exercises Mathematical Methods in Engineering and Physics David E. Johnson,Johnny Ray Johnson,1965 **Special Functions** Nico M. Temme,2011-03-01 This book gives an introduction to the classical well known special functions which play a role in mathematical physics especially in boundary value problems Calculus and complex function theory form the basis of the book and numerous formulas are given Particular attention is given to asymptomatic and numerical aspects of special functions with numerous references to recent literature provided Essential Mathematical Methods for Physicists, ISE Hans J. Weber,George B. Arfken,2004 This new adaptation of Arfken and Weber s best selling Mathematical Methods for Physicists fifth edition is the most modern collection of mathematical principles for solving physics problems **Mathematical Methods Of Theoretical Physics** Karl Svozil,2020-02-24 This book could serve either as a good reference to remind students about what they have seen in their completed courses or as a starting point to show what needs more investigation Svozil Vienna Univ of Technology offers a very thorough text that leaves no mathematical area out but it is best described as giving a synopsis of each application and how it relates to other areas The text is organized well and provides a good reference list Summing Up Recommended Upper division undergraduates and graduate students CHOICEThis book contains very explicit proofs and demonstrations through examples for a comprehensive introduction to the mathematical methods of theoretical physics It also combines and unifies many expositions of this subject suitable for readers with interest in experimental and applied physics *Mathematical Methods for Engineers and Scientists 3* Kwong-Tin Tang,2006-11-30 Pedagogical insights gained through 30 years of teaching applied mathematics led

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Mathematical Methods in Engineering and Physics David E. Johnson,Johnny Ray Johnson,1982 *Mathematical Techniques for Engineers and Scientists* Larry C. Andrews,Ronald L. Phillips,2003 This self study text for practicing engineers and scientists explains the mathematical tools that are required for advanced technological applications but are often not covered in undergraduate school The authors University of Central Florida describe special functions matrix methods vector operations the transformation laws of tensors the analytic functions of a complex variable integral transforms partial differential equations probability theory and random processes The book could also serve as a supplemental graduate text Memento **Mathematical Methods for Scientists and Engineers** Peter B. Kahn,2004-01-01 Appropriate for advanced undergraduate and graduate students in a variety of scientific and engineering fields this text introduces linear and nonlinear problems and their associated models The first part covers linear systems emphasizing perturbation or approximation techniques and asymptotic methods The second part comprises nonlinear problems including weakly nonlinear oscillatory systems and nonlinear difference equations The two parts both of which include exercises merge smoothly and many of the nonlinear techniques arise from the study of the linear systems 1990 edition 70 figures 4 tables Appendix Index An Atlas of Functions Keith B. Oldham,Jan Myland,Jerome Spanier,2010-07-15 This book comprehensively covers several hundred functions or function families In chapters that progress by degree of complexity it starts with simple integer valued functions then moves on to polynomials Bessel hypergeometric and hundreds more

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