

Workbook
Math (14 classes) / Taylor series
Math (14 classes) / Ordinary differential equations

dsolve({ics, ODE});

$$y(x) = 3e^{4x} \tag{17}$$

ics := y(1) = 3;

$$ics := y(1) = 3 \tag{18}$$

dsolve({ics, ODE});

$$y(x) = \frac{3e^{4x}}{e^4} \tag{19}$$

ODE := diff(y(x), x, x) - 4*y(x) = 0;

$$ODE := \frac{d^2}{dx^2} y(x) - 4y(x) = 0 \tag{20}$$

ics := y(0) = 1, D(y)(0) = 5;

$$ics := y(0) = 1, D(y)(0) = 5 \tag{21}$$

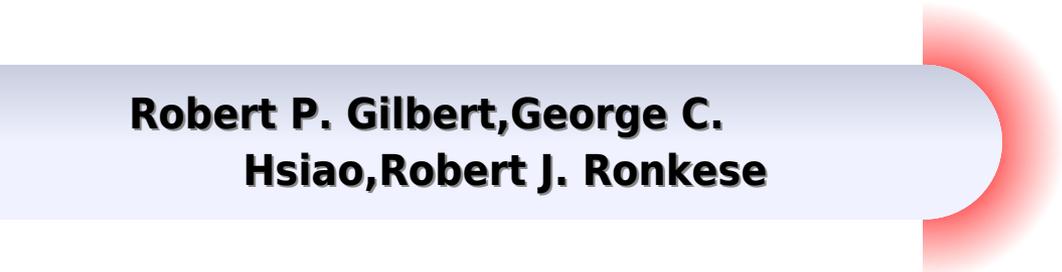
dsolve({ics, ODE});

$$y(x) = \frac{7e^{2x}}{4} - \frac{3e^{-2x}}{4} \tag{22}$$

evalf(subs(x=0, $\frac{7e^{2x}}{4} - \frac{3e^{-2x}}{4}$));

Differential Equations With Maple

**Robert P. Gilbert, George C.
Hsiao, Robert J. Ronkese**



Differential Equations With Maple:

Solving Differential Equations with Maple V, Release 4 David Barrow, 1998 This comprehensive book helps students tap into the power of Maple thereby simplifying the computations and graphics that are often required in the practical use of mathematics Numerous examples and exercises provide a thorough introduction to the basic Maple commands that are needed to solve differential equations Topics include numerical algorithms first order linear systems homogeneous and nonhomogeneous equations beats and resonance Laplace Transforms qualitative theory nonlinear systems and much more

Differential Equations with Maple Kevin R. Coombes, 1997-02-18 This is an easy to use text that uses Maple a mathematical software system to introduce symbolic numerical graphical and qualitative techniques to differential equations There is special emphasis on the specific features of Maple that are useful for analyzing differential equations and introduces mathematical issues pertinent to the use of numerical methods and computers such as stability numerical error and reliability

Differential Equations with Maple V® Martha L. Abell, James P. Braselton, 2014-05-09 *Differential Equations with Maple V* provides an introduction and discussion of topics typically covered in an undergraduate course in ordinary differential equations as well as some supplementary topics such as Laplace transforms Fourier series and partial differential equations It also illustrates how Maple V is used to enhance the study of differential equations not only by eliminating the computational difficulties but also by overcoming the visual limitations associated with the solutions of differential equations The book contains chapters that present differential equations and illustrate how Maple V can be used to solve some typical problems The text covers topics on differential equations such as first order ordinary differential equations higher order differential equations power series solutions of ordinary differential equations the Laplace Transform systems of ordinary differential equations and Fourier Series and applications to partial differential equations Applications of these topics are also provided Engineers computer scientists physical scientists mathematicians business professionals and students will find the book useful

Differential Equations with Maple Kevin Robert Coombes, 1996 Easy to use book that employs Maple to introduce basic symbolic numerical graphical and qualitative techniques to differential equations Focuses on the specific features of Maple that are useful for analyzing differential equations Explains the use of Maple on Mac Windows NeXT and X Window System platforms

Differential Equations Robert P. Gilbert, George C. Hsiao, Robert J. Ronkese, 2021 This book illustrates how MAPLE can be used to supplement a standard elementary text in ordinary and partial differential equation MAPLE is used with several purposes in mind The authors are firm believers in the teaching of mathematics as an experimental science where the student does numerous calculations and then synthesizes these experiments into a general theory Projects based on the concept of writing generic programs test a student's understanding of the theoretical material of the course A student who can solve a general problem certainly can solve a specialized problem The authors show MAPLE has a built in program for doing these problems While it is important for the student to learn MAPLE S in built programs

using these alone removes the student from the conceptual nature of differential equations The goal of the book is to teach the students enough about the computer algebra system MAPLE so that it can be used in an investigative way The investigative materials which are present in the book are done in desk calculator mode DCM that is the calculations are in the order command line followed by output line Frequently this approach eventually leads to a program or procedure in MAPLE designated by proc and completed by end proc This book was developed through ten years of instruction in the differential equations course Differential Equations with Maple Jon H. Davis,2000-12-21 Differential equations is a subject of wide applicability and knowledge of dif Differential equations is a subject of wide applicability and knowledge of dif ferential ferential equations equations topics topics permeates permeates all all areas areas of of study study in in engineering engineering and and applied applied mathematics mathematics Some Some differential differential equations equations are are susceptible susceptible to to analytic analytic means means of of so so lution lution while while others others require require the the generation generation of of numerical numerical solution solution trajectories trajectories to to see see the the behavior behavior of of the the system system under under study study For For both both situations situations the the software software package package Maple Maple can can be be used used to to advantage advantage To To the the student student Making Making effective effective use use of of differential differential equations equations requires requires facility facility in in recognizing recognizing and and solving solving standard standard tractable tractable problems problems as as well well as as having having the the background background in in the the subject subject to to make make use use of of tools tools for for dealing dealing with with situations situations that that are are not not amenable amenable to to simple simple analytic analytic approaches approaches *Differential Equations with Maple* Brian R. Hunt, Lawrence J. Lardy, Ronald L. Lipsman, John E. Osborn, Jonathan M. Rosenberg, 2008-09-29 includes concise instructions for using Maple on any standard computer platform Windows Macintosh or UNIX including Linux can easily be used in conjunction with most Ordinary Differential Equations textbooks **The Maple O.D.E. Lab Book** Darren Redfern, Edgar Chandler, Ed Chandler, 1996-10-10 This book and disk package is a supplement to any of the currently existing introductory texts on Ordinary Differential Equations And uses Maple V Release 4 as a computational tool to further understanding and increase ability Introduction To Partial Differential Equations (With Maple), An: A Concise Course Zhilin Li, Larry Norris, 2021-09-23 The book is designed for undergraduate or beginning level graduate students and students from interdisciplinary areas including engineers and others who need to use partial differential equations Fourier series Fourier and Laplace transforms The prerequisite is a basic knowledge of calculus linear algebra and ordinary differential equations The textbook aims to be practical elementary and reasonably rigorous the book is concise in that it describes fundamental solution techniques for first order second order linear partial differential equations for general solutions fundamental solutions solution to Cauchy initial value problems and boundary value problems for different PDEs in one and two

dimensions and different coordinates systems Analytic solutions to boundary value problems are based on Sturm Liouville eigenvalue problems and series solutions The book is accompanied with enough well tested Maple files and some Matlab codes that are available online The use of Maple makes the complicated series solution simple interactive and visible These features distinguish the book from other textbooks available in the related area

Solving Nonlinear Partial Differential Equations with Maple and Mathematica Inna Shingareva, Carlos Lizárraga-Celaya, 2011-07-24 The emphasis of the book is given in how to construct different types of solutions exact approximate analytical numerical graphical of numerous nonlinear PDEs correctly easily and quickly The reader can learn a wide variety of techniques and solve numerous nonlinear PDEs included and many other differential equations simplifying and transforming the equations and solutions arbitrary functions and parameters presented in the book Numerous comparisons and relationships between various types of solutions different methods and approaches are provided the results obtained in Maple and Mathematica facilitates a deeper understanding of the subject Among a big number of CAS we choose the two systems Maple and Mathematica that are used worldwide by students research mathematicians scientists and engineers As in the our previous books we propose the idea to use in parallel both systems Maple and Mathematica since in many research problems frequently it is required to compare independent results obtained by using different computer algebra systems Maple and or Mathematica at all stages of the solution process One of the main points related to CAS is based on the implementation of a whole solution method e g starting from an analytical derivation of exact governing equations constructing discretizations and analytical formulas of a numerical method performing numerical procedure obtaining various visualizations and comparing the numerical solution obtained with other types of solutions considered in the book e g with asymptotic solution

Differential Equations with Maple Coombes, 1997-10-02

Differential Equations Robert P. Gilbert, George C. Hsiao, Robert J. Ronkese, 2021-06-28 This book illustrates how MAPLETM can be used to supplement a standard elementary text in ordinary and partial differential equation The authors are firm believers in the teaching of mathematics as an experimental science where the student does numerous calculations and then synthesizes these experiments into a general theory The goal of the book is to teach the students enough about the computer algebra system MAPLETM so that it can be used in an investigative way This book was developed through ten years of instruction in the differential equations course

Ordinary Differential Equations Radu Precup, 2017-10-15 Precup s introduction into Ordinary Differential Equations combines models arising in physics and biology for motivation with rigorous reasoning in describing the theory of ODEs and applications and computer simulations with Maple While offering a concise course of the theory of ODEs it enables the reader to enter thie field of computer simulations Thus it is a valuable read for students of mathematics as well as physics and engineering

Differential Equations with Maple V Martha L. Abell, James P. Braselton, 2000 *Multivariable Mathematics with Maple* James A. Carlson, Jennifer M. Johnson, 1997 [Solving ODEs with Maple V](#) David Barrow, 1996 This resource manual

laboratory book shows students how to use the Maple computer algebra system to solve problems in ordinary differential equations Projects exercises and explanations show readers how to get the most out of the Maple computer algebra

Partial Differential Equations & Boundary Value Problems with Maple V George A. Articolo,1998-04-24

Integrating Maple V animation software and traditional topics of partial differential equations this text discusses first and second order differential equations Sturm Liouville eigenvalue problems generalized Fourier series the diffusion or heat equation and the wave equation in one and two spatial dimensions the Laplace equation in two spatial dimensions nonhomogenous versions of the diffusion and wave equations and Laplace transform methods of solution Annotation

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From Elementary Probability to Stochastic Differential Equations with

MAPLE® Sasha Cyganowski,Peter Kloeden,Jerzy Ombach,2012-12-06 This is an introduction to probabilistic and statistical concepts necessary to understand the basic ideas and methods of stochastic differential equations Based on measure theory which is introduced as smoothly as possible it provides practical skills in the use of MAPLE in the context of probability and its applications It offers to graduates and advanced undergraduates an overview and intuitive background for more advanced studies

Maple By Example Martha L. Abell,James P. Braselton,2005-04-28 Maple by Example Third Edition is a

reference text for beginning and experienced students professional engineers and other Maple users This new edition has been updated to be compatible with the most recent release of the Maple software Coverage includes built in Maple commands used in courses and practices that involve calculus linear algebra business mathematics ordinary and partial differential equations numerical methods graphics and more Updated coverage of Maple features and functions Backwards compatible for all versions New applications from a variety of fields including biology physics and engineering Expanded topics with many additional examples

Handbook of Ordinary Differential Equations Andrei D. Polyanin,Valentin F.

Zaitsev,2017-11-15 The Handbook of Ordinary Differential Equations Exact Solutions Methods and Problems is an exceptional and complete reference for scientists and engineers as it contains over 7 000 ordinary differential equations with solutions This book contains more equations and methods used in the field than any other book currently available Included in the handbook are exact asymptotic approximate analytical numerical symbolic and qualitative methods that are used for solving and analyzing linear and nonlinear equations The authors also present formulas for effective construction of solutions and many different equations arising in various applications like heat transfer elasticity hydrodynamics and more This extensive handbook is the perfect resource for engineers and scientists searching for an exhaustive reservoir of information on ordinary differential equations

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the chicken was 8

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