



$$x_{n+1} = x_n - \frac{f(x_n)}{f'(x_n)}$$

Numerical solutions of equations

You can solve equations of the form $f(x) = 0$ using the Newton-Raphson process

Use the Newton-Raphson process to find the root of the equation:

$$x^4 + x^2 = 80$$

Use $x_0 = 3$ and give your answer to 2 decimal places.

$$f(x) = x^4 + x^2 - 80$$

$$f'(x) = 4x^3 + 2x$$

$$x_0 = 3$$

$$x_1 = 2.912$$

$$x_{n+1} = x_n - \frac{f(x_n)}{f'(x_n)}$$

$$x_1 = x_0 - \frac{(x_0)^4 + (x_0)^2 - 80}{4(x_0)^3 + 2(x_0)}$$

$$x_1 = 3 - \frac{(3)^4 + (3)^2 - 80}{4(3)^3 + 2(3)}$$

$$x_1 = 2.912$$

Our current approximation is x_0 , replace the fraction with equivalent expressions

Sub in $x_0 = 3$

Calculate

First Course In Numerical Methods Solution

John Alfred Jacquez



First Course In Numerical Methods Solution :

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A First Course in Ordinary Differential Equations Martin Hermann, Masoud Saravi, 2014-04-22 This book presents a modern introduction to analytical and numerical techniques for solving ordinary differential equations ODEs Contrary to the traditional format the theorem and proof format the book is focusing on analytical and numerical methods The book supplies a variety of problems and examples ranging from the elementary to the advanced level to introduce and study the mathematics of ODEs The analytical part of the book deals with solution techniques for scalar first order and second order linear ODEs and systems of linear ODEs with a special focus on the Laplace transform operator techniques and power series solutions In the numerical part theoretical and practical aspects of Runge Kutta methods for solving initial value problems and shooting methods for linear two point boundary value problems are considered The book is intended as a primary text for courses on the theory of ODEs and numerical treatment of ODEs for advanced undergraduate and early graduate students It is assumed that the reader has a basic grasp of elementary calculus in particular methods of integration and of numerical analysis Physicists chemists biologists computer scientists and engineers whose work involves solving ODEs will also find the book useful as a reference work and tool for independent study The book has been prepared within the framework of a German Iranian research project on mathematical methods for ODEs which was started in early 2012

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A First Course in Computing and Numerical Methods John Alfred Jacquez, 1970

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differential equations in population dynamics and fluid dynamics Numerical Methods for Ordinary Differential Equations
David F. Griffiths, Desmond J. Higham, 2010-11-11 Numerical Methods for Ordinary Differential Equations is a self contained introduction to a fundamental field of numerical analysis and scientific computation Written for undergraduate students with a mathematical background this book focuses on the analysis of numerical methods without losing sight of the practical nature of the subject It covers the topics traditionally treated in a first course but also highlights new and emerging themes Chapters are broken down into lecture sized pieces motivated and illustrated by numerous theoretical and computational examples Over 200 exercises are provided and these are starred according to their degree of difficulty Solutions to all exercises are available to authorized instructors The book covers key foundation topics o Taylor series methods o Runge Kutta methods o Linear multistep methods o Convergence o Stability and a range of modern themes o Adaptive stepsize selection o Long term dynamics o Modified equations o Geometric integration o Stochastic differential equations The prerequisite of a basic university level calculus class is assumed although appropriate background results are also summarized in appendices A dedicated website for the book containing extra information can be found via www.springer.com

A First Course in Numerical Analysis Michael Anthony Wolfe, 1972 A First Course in Differential Equations, Modeling, and Simulation Carlos A. Smith, Scott W. Campbell, Ryan G. Toomey, 2025-09-23 A First Course in Differential Equations Modeling and Simulation shows how differential equations arise from applying basic physical principles and experimental observations to engineering systems Avoiding overly theoretical explanations the textbook also discusses classical and Laplace transform methods for obtaining the analytical solution of differential equations In addition the authors explain how to solve sets of differential equations where analytical solutions cannot easily be obtained Incorporating valuable suggestions from mathematicians and mathematics professors the third edition Reworks the chapter Response of First and Second Order Systems to include the system response to step changes impulses rectangular pulses and sinusoid forcing functions as well as the response of coupled first and second order ordinary differential equations ODEs it also introduces Bode plots to analyze the frequency response of second order ODEs and the principle of oscillation modes in coupled second order ODEs Adds a new section on springs and dampers in series or parallel Includes new content on Simulink and modeling Contains new exercises that can be used as projects and answers to many of the end of chapter problems Features new end of chapter problems and updates throughout This textbook provides students with a practical understanding of how to apply differential equations in modern engineering and science A solutions manual and files of all figures in the text are available to adopting professors Numerical Methods for Engineers and Scientists Amos Gilat, Vish Subramaniam, 2008 Following a unique approach this innovative book integrates the learning of numerical methods with practicing computer programming and using software tools in applications It covers the fundamentals while emphasizing the most essential methods throughout the pages Readers are also given the opportunity to enhance their programming skills using MATLAB to implement algorithms

They'll discover how to use this tool to solve problems in science and engineering

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Elementary Differential Equations and Boundary Value Problems, International Adaptation William E. Boyce, Richard C. DiPrima, Douglas B. Meade, 2022-08-23. Boyce's *Elementary Differential Equations and Boundary Value Problems* is written from the viewpoint of the applied mathematician with diverse interest in differential equations ranging from quite theoretical to intensely practical and usually a combination of both. The intended audience for the text is undergraduate STEM students taking an introductory course in differential equations. The main prerequisite for engaging with the program is a working knowledge of calculus gained from a normal two- or three-semester course sequence or its equivalent, while a basic familiarity with matrices is helpful. This new edition of the book aims to preserve and to enhance the qualities that have made previous editions so successful. It offers a sound and accurate exposition of the elementary theory of differential equations with considerable material on methods of solution, analysis, and approximation that have proved useful in a wide variety of applications.

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A First Course in the Finite Element Method Using Algor Daryl L. Logan,2001 The book features detailed step by step procedures that demonstrate how readers may use the Algor Software to solve numerous problems ranging from trusses and three dimensional stress to transient heat transfer with a working introduction to the Algor System provided in an appendix

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